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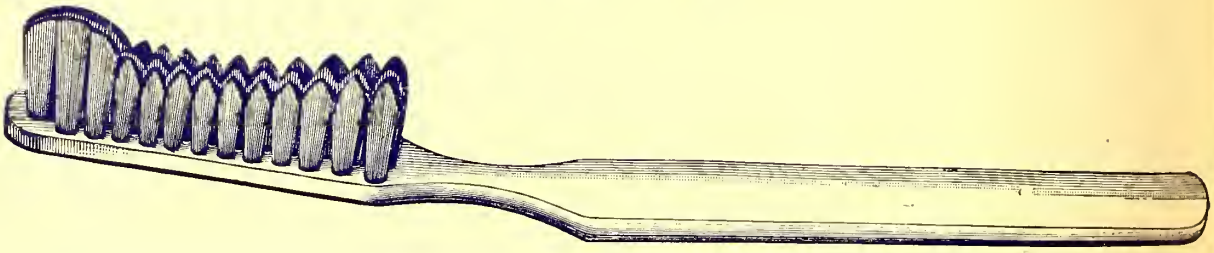

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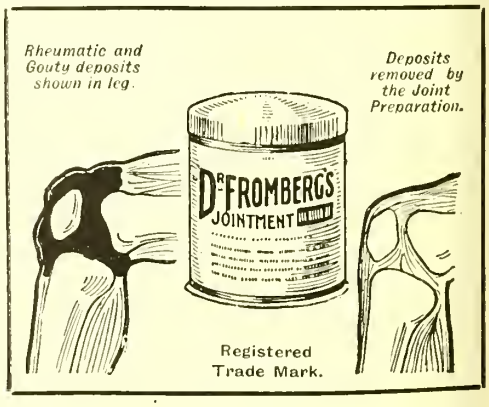

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In this section, under appropriate headings, are given the names of firms advertising in this or other issues of the month. No charge is made to advertisers for the insertion of their names, but only those who have contracts current for advertising in this journal are mentioned. The headings refer generally to the classes of goods actually advertised, but this is not a detailed Guide such as appears in "The Chemist and Druggist Diary." Inquiries addressed to the "Information Department," THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., regarding articles not appearing in these pages receive prompt attention, as shown weekly in the editorial pages.

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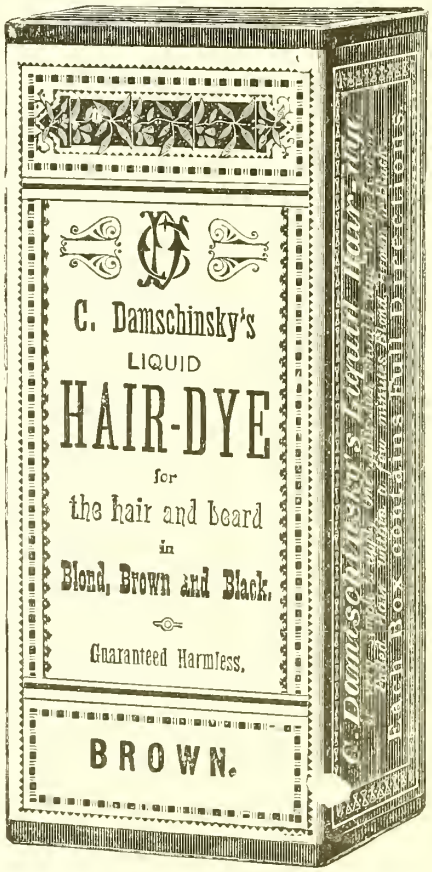

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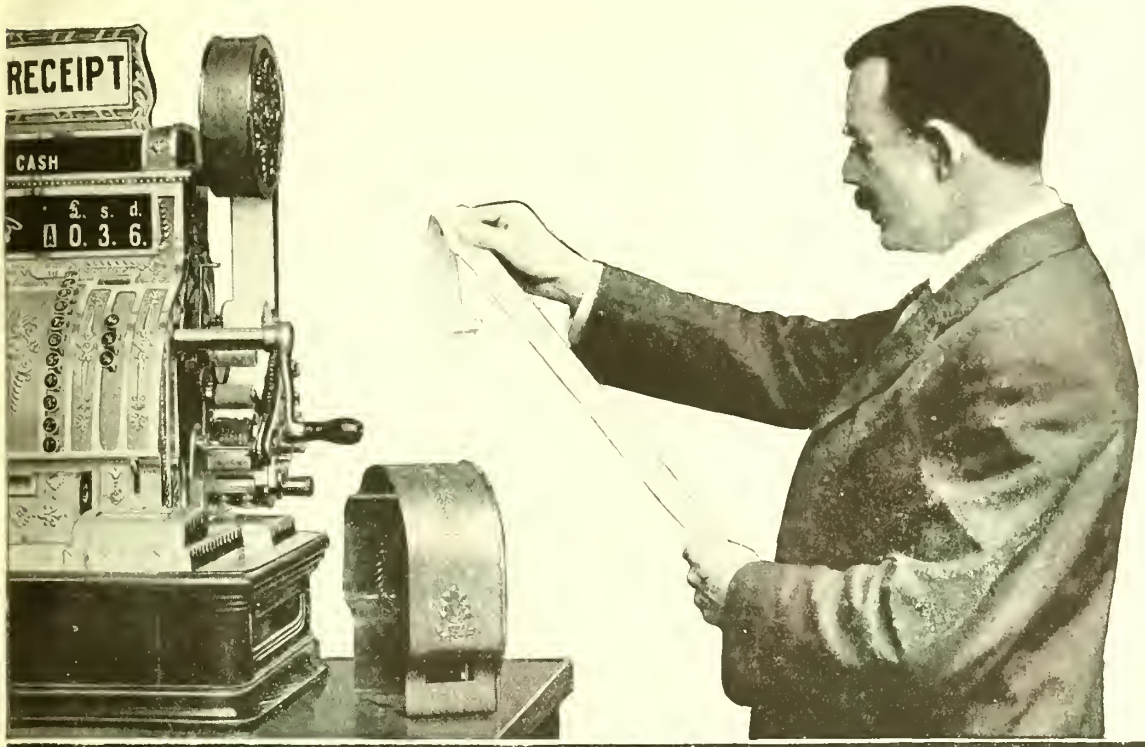

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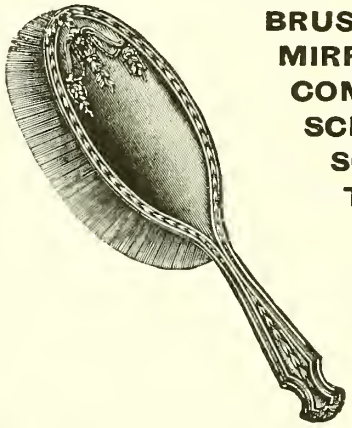

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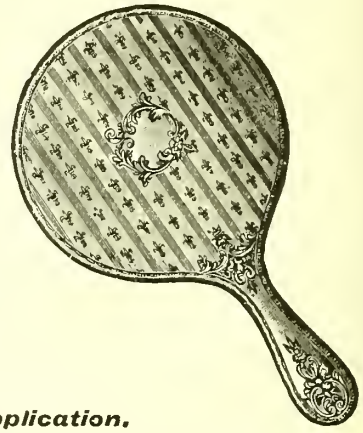

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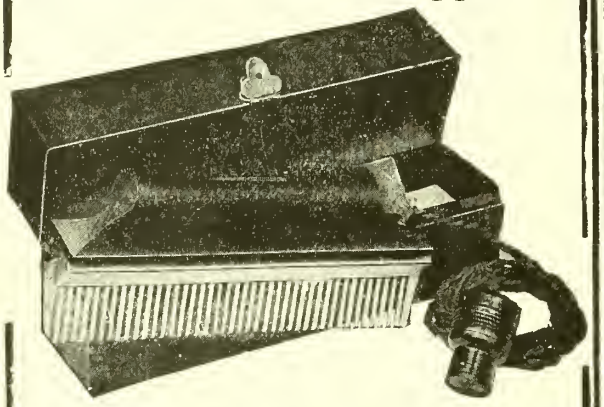

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THIS IS WHAT THE "C. & D." SAYS OF IT:

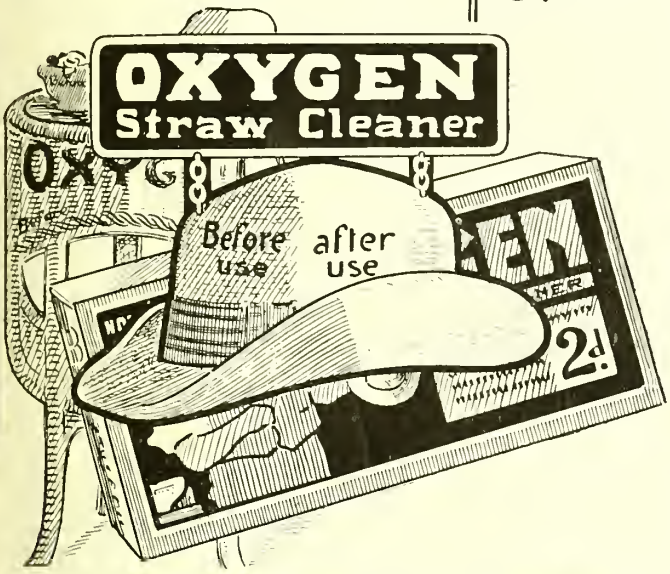
BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, Cheltenham.

AN ATTRACTIVE WINDOW SHOW

With every ½-gross lot (cash with order) sent out during this month, we are FOR **6/-** enclosing a quantity of highly artistic advertising material for window display.



Our cartons, cut-outs, boxes and packets are unique. They brighten up the window and bring in fresh customers every day.

OXYGEN STRAW HAT CLEANER

Sells on sight and gets repeat orders on its merits. It gives back the natural tint to the straw—quite different to the "oxalic colour."

12/- A GROSS, Carriage Paid.

ERNEST ECK & CO.,
20 Bournvale Rd., Streatham, S.W.

OVER 100% PROFIT ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—
C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.

HAY'S HAIR HEALTH

Sells steadily and consistently. The retail chemist who has it on his shelves is assured of a continued sale of a good preparation.

HAY'S HAIR HEALTH

Restores natural colour to grey or faded hair, eradicates dandruff, cleanses the scalp. Is not a dye.

ON THE P.A.T.A. LIST.

For Prices and information on Sales Helps, address—

THOMPSON & CAPPER, LD.
Manesty Buildings,
COLLEGE LANE, LIVERPOOL.

GEORGE LUEDERS & CO.

NEW YORK, 218, 220 & 211 Pearl Street. **CHICAGO,** 301 W. Randolph Street. **SAN FRANCISCO, CAL.,** 11 Main Street.

MONTREAL, 396 St. Paul Street. **MEXICO CITY,** Av. Independencia 10.

Letters address : P.O.B. 1498 NEW YORK. Cable address : "GUALACUM."

Import and Export :

Essential Oils, Olive Oil, Vanilla Beans, Natural and Synthetic Perfumers' Materials.

DIRECT IMPORT FROM JAPAN

WE SELL TO ARRIVE.

HAIR, NAIL AND TOOTH BRUSHES. ALSO ALL KINDS OF ANTIMONY METAL BOXES SUITABLE FOR JEWEL CASES AND FOR TOILET PURPOSES.

H. D. HARDIE & CO., 176 Ingram Street, GLASGOW.

Please Try Our DISPENSING BOTTLES & PHIALS.

We send six gross assorted or otherwise, carriage paid, to any address in the United Kingdom. Smaller quantities not carriage paid.

REDUCED PRICES.

Clear Blue Tinted.—Good Quality.

3 & 4	6 & 8	12	16 ozs.	Plain or graduated, round edges
8/-	9/-	13/-	18/-	per gross.

Clear Blue Tinted. Best Quality. QUININE.

3 & 4	6 & 8	12	16 ozs.	Plain or graduated, round edges
10/-	11/-	16/-	20/-	per gross.

CHEAP BOTTLES for Dispensing.

3 & 4	6	8 ozs.	Plain or graduated, round edges.
7/-	8/3	8/6	per gross

WHITE PHIALS—GOOD QUALITY.

½	1	1½	2 ozs.	Plain or teaspoons.
4/-	4/6	4/9	5/3	per gross.

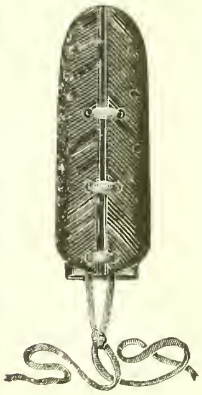
I. ISAACS & CO.,

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W., or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.

Orders sent to either establishment have attention.

Established 100 Years.

PAROUBEK'S



"FOLDO"

LACING

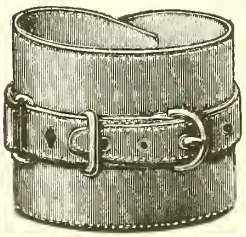
FINGER STALLS

(BLACK OR TAN)

3/9 PER DOZEN.

PAROUBEK'S "TRIUMPH" WRIST STRAPS

(Felt lined). 3/9 per doz.



BOTH THE BEST.

Of all Wholesale Houses.

Sole Consignees for Great Britain and Colonies :

SOLPORT BROS.
184-190 GOSWELL RD.,
LONDON, E.C.

TIDMAN'S SEA SALT.

ON P.A.T.A. LIST. INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.

Orders of Twenty Shillings value and upwards Carriage Paid—Cases Free, less 2½ % Discount for Cash.

	Advertised Price. Per Box.		Minimum Retail Price. Per Box.		Minimum Wholesale Price. Per Gross.
1d. Packets	1/-	...	12 in box **11d.**	...	8/6
2d. ,,	2/-	...	,, **1/10**	...	16/9
1d. linen Bags	1/-	...	,, **11d.**	...	8/6
2d. ,, ,,	1/-	...	6 in box **11d.**	...	16/9
Boxes, about 1½ lb.	**4d.**	...	**3½d.**	...	2/10 pr. doz.
,, ,, 3½ ,,	**8d.**	...	**7d.**	...	5/8 ,,
,, ,, 7 ,,	**1/2**	...	**1/-**	...	10/- ,,
,, ,, 14 ,,	**2/-**	...	**1/10**	...	18/3 ,,

SINGLE BAGS of following 3 sizes sent CARRIAGE PAID to any place in the United Kingdom, so that there is no Stock to hold.

	Advertised Price.		Minimum Retail Price.		Minimum Wholesale Price.
28 lb. Bags (or Boxes)	**3/-** each	...	**3/-**	...	2/6 each
½-cwt. Bags	**5/6** ,,	...	**5/6**	...	4/7 ,,
1-cwt. Bags	**10/-** ,,	...	**10/-**	...	8/4 ,,

The following are also sent, carriage paid, cases free, to any place in the United Kingdom, for net cash : 4—7 lbs. Boxes, **3/6** the lot ; 6—7 lbs. Boxes and upwards at **10/-** per dozen (list price). Orders for assorted sizes to the value of **7/6** and upwards.

TIDMAN'S SEA SOAP, beautifully perfumed.

	Advertised Price.		Minimum Retail Price.		Minimum Wholesale Price.
Box of 3 large Tabs.	**1/-** each	...	**10½d.**	...	**7/6** per doz. boxes.
,, 6 small Tabs.	**6d.** ,,	...	**5d.**	...	**3/9** ,, ,,
Bars about ½-lb.	**5d.** ,,	...	**4d.**	...	**3/-** per doz. bars.
,, ,, 1-lb.	**10d.** ,,	...	**8d.**	...	**6/-** ,, ,,

Accounts Monthly Net due 10th of following month. Terms for Seidlitz Powders, Pinnacle Soap Stands, Toilet Soaps, &c., sent on application.

TIDMAN & SON, Ltd., Wapping, London, E.

L. GIVAUDAN,

GENEVA, SWITZERLAND.

Manufacturer of all kinds of

SYNTHETIC & AROMATIC CHEMICALS

Acetate of Linalyl	Jasmins
Bergamot art.	Musks
Cinnamic alcohol	Neroli
Citronellol	Phenylethylic alcohol
Coumarin	Rhodinol
Geraniol	Roses
Geranium	Violets
Jacintheas	

&c. &c.

LONDON BRANCH: 43/45 Great Tower Street, E.C.
Telephone Number: Avenue 83.
Telegraphic Address: "Muskinol-Bilgate, London."
AMERICAN BRANCH: Geo. Lueders & Co., 218 & 220 Pearl Street, New York.

Something REALLY new.

JEWSBURY & BROWN'S ORIENTAL TOOTH POWDER,

in the most NOVEL and USEFUL Container,

6d. and 1/-

May we send you a sample to let you see what it is like?

JEWSBURY & BROWN, Ardwick Green, MANCHESTER.

A. Boake Roberts & Co., Ltd.,

STRATFORD, LONDON, E.

. . FOR . .

SOLUBLE ESSENCES, ESSENTIAL OILS, OIL LEMON.

If you wish to make first-class ∴ Aerated Waters, use ∴ **BOAKE ROBERTS' ESSENCES.**

Finest Soluble Essences:

Lemon,
Orange,
Ginger,
Ginger Ale,
Stone Ginger Beer *(Cloudy)*,
Clear Ginger Beer,
Kola Champagne,
Lime Juice and Soda,
Lemon Squash,
Raspberry,
Strawberry,
Pineapple,
Vanilla, &c. &c.

GOLDEN CARAMEL COLOURINGS, &c. and all sundries.

A. Boake Roberts & Co., Ltd.,

THE "D & O" BRAND MEANS "STANDARD OF QUALITY"

ESSENTIAL OILS, SOUTH AMERICAN BALSAMS & DRUGS.

Write for Samples and Prices of our PEPPERMINT OILS.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

OKELL'S ORIGINAL MONA BOUQUET.

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.

Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6, per Bottle,

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by THOMAS WEST & SON, 1187 Chester Road, Stretford. MANCHESTER.

'SEMREH'

THE LAST WORD in Bottle Cappings. Air-tight, spirit-proof, easy to put on, self-fitting: the bottle's contents hermetically sealed.

Use 'SEMREH' HALF-CAPS for PERFUMERY

Full particulars on request.

The VISCOSE DEVELOPMENT CO., Ltd., Pembroke Road, BROMLEY, KENT.

SELF-FIXING BOTTLE CAPS

THE LESCOL PERFUMERY CO.

beg to announce that in addition to their well-known popular lines they now have an extensive range of

NEW LINES.

Before placing orders, BUYERS will be well advised to send a card stating requirements, when a price list with coloured illustrations of those suitable to their market will be sent immediately.

Orders dispatched in rotation; to ensure early delivery write at earliest opportunity to :—

THE LESCOL PERFUMERY CO.,
LOMOND GROVE,
CAMBERWELL GREEN,
LONDON, S.E.

Telephone : 810 Hop.

Telegrams : "Vanillin-Camber, London."

HEALTH SALINE

In Patent Airtight Tins, which fill from the bottom.

ADVANTAGES:

Bad stock avoided, as Saline can be kept from season to season without deteriorating.

Satisfaction to Consumers.

For export these Tins are indispensable, as Saline can now be shipped without any risk.

X286.

X286 design, 4 oz., **2/9** doz.
X286L „ 8 oz., **4/6** „
X41P Fruit design, 4 oz. **2/9** doz.
X41/SP „ „ (shorter), 3 oz., **2/3** doz.
X356 "St. George & Dragon," 4 oz. **2/9** doz.

Special designs produced for large buyers. Quotations on application.

☛ By selling these tins of Saline you will double your trade.

Ordinary lever lid Tins supplied if wanted.

HYGEIA SALT

In square round-cornered tins with ordinary lever lid, very smart decoration, **2/9** doz.

Saline packed in Cheltenhams; 6 oz., **4/6** doz., 8 oz. **5/6** doz.

Also sold in bulk; price on application.

Shirley Brothers, Ltd.

"Whitecross Works," London, S.E.

The Standard of Excellence.

Paraffin. Liquidum

(PAR. LIQ., B.P.)

Water White and White Paraffin Liq. Oils.
Spec. Grav. 0.860-0.885/90.
Answering all the requirements of the Pharmacopœia.
Free of taste, smell, colour, and Sulphur.

The Highest Standard of Excellence.

Petroleum Jellies

(PAR. MOLLE ALB. & FLAV.)

Finest Pharmaceutical and Technical grades, high and ordinary melting-points.

The ***WHOLESALE ONLY FROM—***

Stern Sonneborn Oil Co., Ltd.,

51 Royal London House, Finsbury Sq., London, E.C.

Telegraphic Address: "Centumvir London."

Telephone Nos.: 3797, 3798 & 3799 London Wall.

STIPENDUM CORK STOPPERS

in all sizes suitable for
KALIS, CITRATES, DISPENSING, and all FLUIDS.

STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS, PASTES, AND OINTMENTS.

GREASE PROOF.

For Samples & particulars apply to

The
Stipendum Stopper Co.
1 Newman Street,
LONDON, W.
Tel. No. 3769
GERRARD.

"A Bottle of Anzora, Please!"

If you have not already had this demand you shortly will have, for "Anzora Cream" is being extensively advertised both in the Press and on the Railways—every day thousands of prospective buyers see these advertisements and are influenced to buy.

Be prepared to meet these buyers. Stock "Anzora" now, it will mean extra and remunerative business for you, for "Anzora" is on the P.A.T.A. and ensures

80 % Protected Profit for the Retailer

when purchased in lots of 3 doz. and upwards.

Trade Terms:

Per doz.	Retailed at
11/6	**18/-**
19/6	**30/-**

We give 10 % discount on orders of 3 dozen or more.

ORDER A SUPPLY TO-DAY from your usual Wholesaler and send a card to us for Showcards.

THE ANZORA PERFUMERY CO.

32/34 Willesden Lane, London, N.W.

Pure Rectified Re-distilled Spirit

FINEST QUALITY S.V.R.

Quotations and Samples on application to

James Calder & Co. Ltd.
Distillers, BO'NESS, N.B.

Telegraphic Address: "Distillers Bo'ness."

Telephone No.: 12 Bo'ness.

METHYLATED SPIRIT

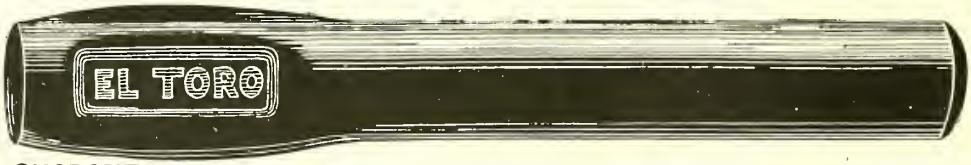
Makers of Industrial and Mineralised Spirit

QUOTATIONS & SAMPLES ON APPLICATION TO

RIDDELL & SMITH, Methylators, Bo'ness, N.B.

DROGUERIES & HUILERIES ANVERSOISES, LTD., ANTWERP, BELGIUM.

LIQUORICE MANUFACTURERS.



Own Plant for Liquorice Extracting from first-class roots.

GUARANTEED PURE REFINED EXTRACT OF LIQUORICE. BRIGHT, SOLUBLE.

In sticks of 8 and 5 to lb., or according to buyer's convenience. Sticks with buyer's own mark or name if desired; packed in cases of 1 cwt.

Glycyrrhizinate Amon. 70/72-80/82. **LIQUORICE ROOTS** in Bundles. *Wholesale only.*

Telegrams—"Wiclif-Cent. London." Telephone—7630 Central.

FREE CHURCH TOURING GUILD,

Memorial Hall, Farringdon St., LONDON E.C. (Founded 1896.)

President—Rev. J. SCOTT LIDGETT, M.A., D.D.
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HOLIDAYS ON THE CONTINENT.

No extras. All prices include Return Tickets.
Belgian Tours include Excursions also.

NAMUR, The Gateway of the Ardennes ...	14 Days for	£5 10 0
BRUGES AND HEYST	14 Days for	£5 5 0
Week-ends in Bruges, 3 Days		£2 12 6
16 Days' CLARENS-MONTREUX TOUR		£7 17 6
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All Swiss and Italian Tours by the short Sea Route.

DEPARTURES { **BELGIUM**—Every Saturday. **SWITZERLAND**—Tuesdays and Fridays.

For Illustrated Booklet, with full particulars, apply The Secretary, Free Church Touring Guild, 89 Memorial Hall, Farringdon St., London, E.C.

If you already have a Dental Practice, or if you are contemplating establishing one,

YOU NEED OUR ILLUSTRATED CATALOGUE.

In it you will find everything that you want, of the highest quality, at the lowest prices.

DENTAL MANUFACTURING EDWARDS COMPANY LIMITED

Drop a Postcard at once for it.

37 & 38 Margaret St., Oxford Circus, LONDON, W.

Branch Depot:
30 Finsbury Pavement, E.C.

In Constant Demand all over the World.

Over a quarter of a century of uninterrupted success as a specialised preparation.

Unsurpassable reputation for genuineness. Never claims to do more than it can accomplish.

"HIRSCHENSPRUNG" REGISTERED "DEER LEAP" TRADE MARK

KUTNOW'S POWDER

For Liver, Kidneys & Bowels.

The Incomparable Morning Health Invigorator.

Dr. F. A. LEES, of Meanwood, Leeds, wrote:—"I have taken Kutnow's Powder for my own case of 'Suppressed Gout,' and would like to give my honest experience of it. I have used many anti-uric remedies, but must certainly award the palm for mild but speedy elimination of uric acid poison from the blood to Kutnow's. It is invaluable in the morning to brain-workers who have sedentary occupations. It surely 'keeps at bay' every liverish disability."

Dr. J. T. SIMPSON wrote:—"I consider Kutnow's Powder the greatest uric acid solvent and eliminator in the world. I suffered for two years with gout in its most painful form, my body being thoroughly charged with uric acid, and hardly able to move. I took Kutnow's Powder, and in three days the morning tests of urine showed less and less uric acid, until, after taking four bottles, I am now entirely free from the poisonous dross. I am prescribing it throughout my practice."

Dr. ERNST OTT, physician to the late King Edward VII. at Marienbad, wrote:—"I have for some time prescribed Kutnow's Powder for many of my patients as an after-cure to the treatment here in Marienbad, and have always received good reports as to its efficacy. I consider it a most efficient aperient, as it always produces a free bilious discharge, without discomfort, griping, or any bad after-effects. In many cases of inactivity of the liver I was delighted with the prompt effect. I found it of very great use in very bad cases of Dyspepsia, and can therefore conscientiously say that it is one of the best, most efficient and agreeable of remedies."

SIMPLE—SAFE—SALUTARY—SANITARY—SATISFACTORY

It is on the P.A.T.A.
It is well advertised
It is very popular
It is a good article
It is never dead stock
It yields a good profit
It satisfies everybody

The Doctors prescribe it
The Nurses recommend it
The Public appreciate it
The Customer comes again
The demand is constant
The sales are increasing
The trade is booming

ORDER AT ONCE FROM YOUR WHOLESALE HOUSE.

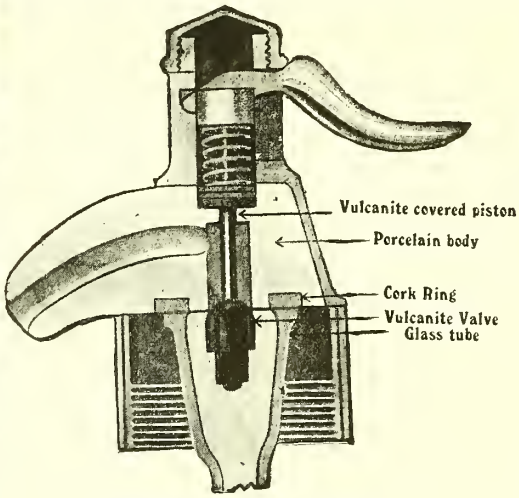
WINDOW SHOWS ATTRACT REMUNERATIVE BUSINESS.

YOU CAN'T AFFORD TO RUN OUT OF STOCK—SEE TO IT

SEND A POSTCARD FOR DUMMIES AND SHOWCARDS TO

S. KUTNOW & Co., Ld.,

41 FARRINGDON ROAD, LONDON, E.C.



Gold Medal awarded, Odessa Exhibition, 1910

SYPHON SATISFACTION

secured by using Sharman's (patent) Hygienic Syphon.

Chemists are now becoming alert to the disadvantages of the ordinary Syphon. The usual heads are made of Tin, Lead, Antimony or Aluminium Alloys which dissolve in CO_2; therefore the water cannot be pure and its use may be attended with most serious results.

The head of Sharman's Hygienic Syphon is of solid porcelain and the valve and piston are covered with vulcanite.

BEWARE of infringement of Sharman's Patent Syphons. Makers and users are equally liable and will be promptly proceeded against.

TESTIMONY OF USERS:

"The most Perfect Hygienic Syphon on the Market."

If you contemplate filling your own Syphons apply here for up-to-date Electrical Plant.

SHARMAN'S PATENT SYPHON CO. LTD.

171 LOWER CLAPTON ROAD, N.E.

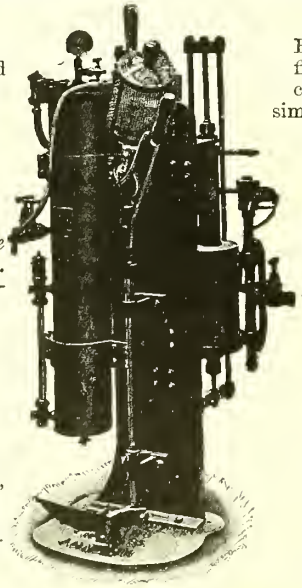
FLUGEL'S AUTOMATIC MACHINE "A"

WITH SYPHON FILLER.

Producing a continuous supply of the most perfect aerated and filtered water without the slightest work.

Your own Syphons filled at a cost of One Penny per dozen.

Every drop filtered and carbonated simultaneously.



Connect here to CO_2 Tube.

Connect here to Water Main.

For places without Water Mains order our Machine "B" with Hand Water Pump.

FLUGEL & CO., Carbonating Engineers,

25 Leconsfield Road, Canonbury, N.

Improve Your Sales

by using

BILZ-SINALCO

ESSENCE

Sold in Concentrated Form or as Syrup.

Protected by Patents.

Celebrated in every Civilised Country.

Licences granted for Districts.

Makes Nature's own Cooling and Refreshing Drink

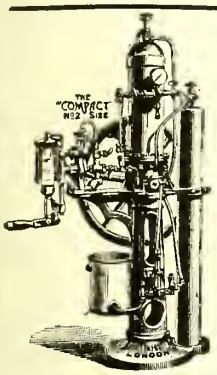
"PROSET"

Apply—

SINALCO CO., DETMOLD (Germany)

BARNETT & FOSTER

11 GOLD MEDALS. *The Best House in the World for all requirements of the Mineral Water Trade.* **49 HIGHEST AWARDS.**



THE "COMPACT" complete Soda-water Machine

For use with Compressed Carbonic Acid Gas is specially designed FOR CHEMISTS, and is provided with one or more filling machines.

Occupies little space. Ready for immediate use. Requires no fixing.

Produces Soda-water, Lemonade, etc., of the highest quality and greatest purity.

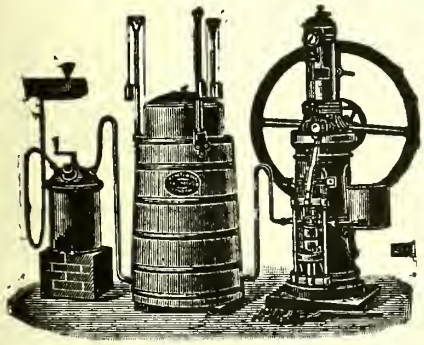
PRICES—

No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles *and* Syphons ... £60
No. 2.—Capacity 600 dozen per day, including Filling Machines for Bottles *and* Syphons ... £48
No. 3.—Capacity 300 dozen per day, including Filling Machines for Bottles *or* Syphons ... £33

We also make a smaller machine at £20.

THE PERFECTION OF SIMPLICITY. AUTOMATIC CARBONATION.

To those who can spare space in which to generate their own gas, we offer the "Niagara" machines advertised below.



THE "NIAGARA" Soda-water Machine

(Continuous Action).

This machine is superseding all other types for the manufacture of FIRST-CLASS Aerated Waters, and is in use in most of the leading manufactories throughout the world.

PRICES, COMPLETE, from £30,

FITTED FOR HAND AND POWER

Particulars of Larger Sizes on application.

NOTE.—These machines are sent out by us complete and ready for work. We include all necessary connecting pipes ***without extra charge.*** No "extras" to pay for after buying our machines.

THE "GAS-SAVER," Price £60

STUDY QUALITY—AS CHEMISTS MUST—

By Bottling on our Latest Types of Filling Machines. We Guarantee the

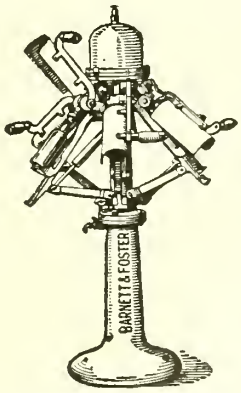
Highest Quality Soda-water at 60-lb. Pressure!

thereby Saving Gas, avoiding Bottle-breakage and improving quality of Products.——The secret:

BACK PRESSURE—PROPERLY APPLIED.

Particulars of the "GAS-SAVER," for filling Codd's and Niagara Bottles; The "ROUNDABOUT," for filling Corked, Crowned and Screw Bottles sent on application.

SAVE MONEY.



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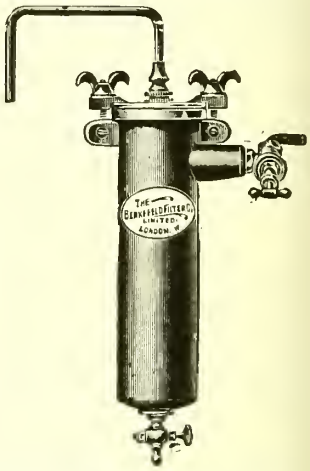

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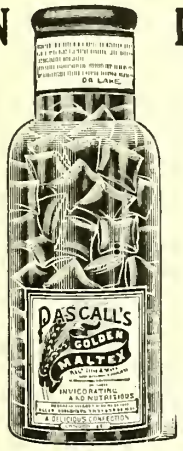

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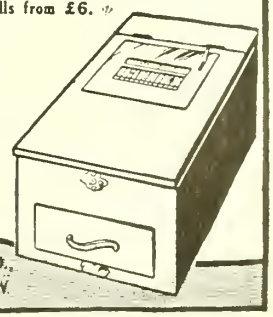

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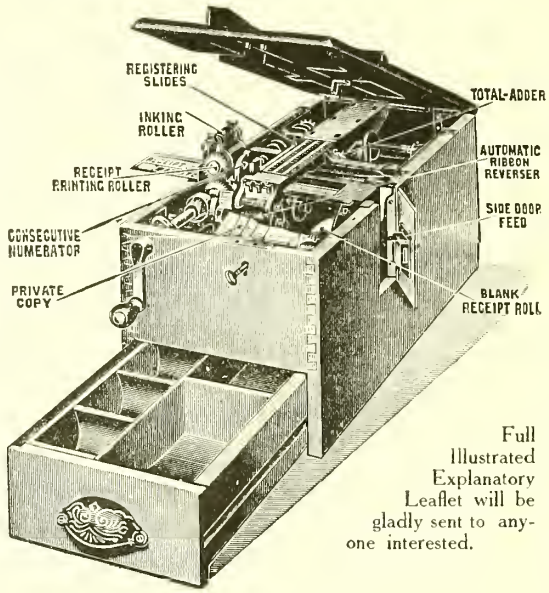

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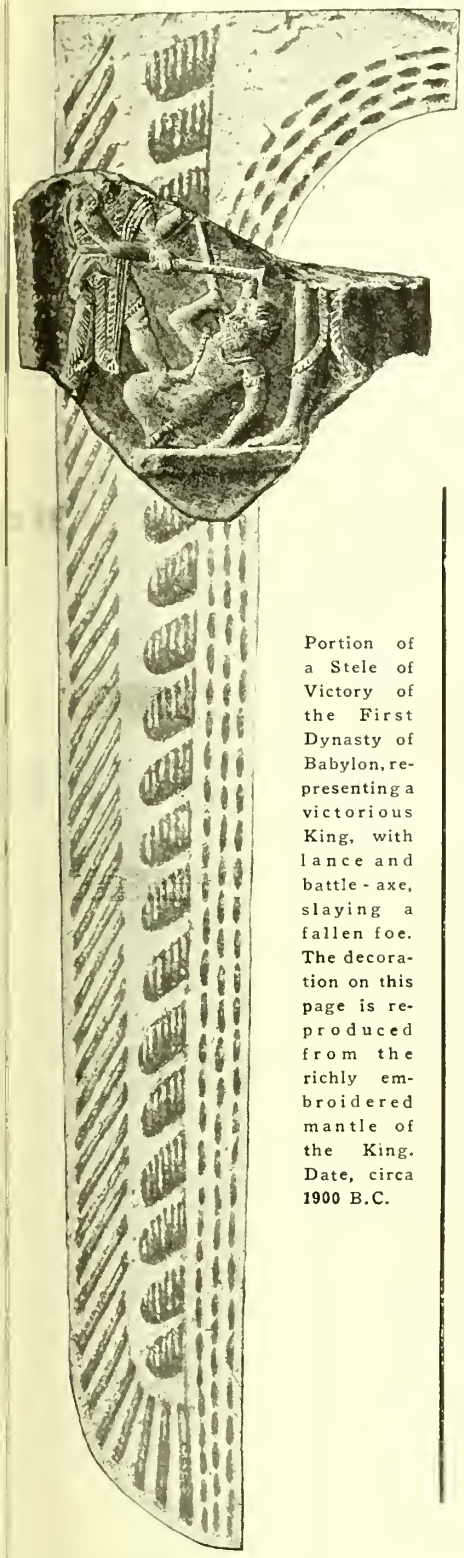

Portion of a Stele of Victory of the First Dynasty of Babylon, representing a victorious King, with lance and battle-axe, slaying a fallen foe. The decoration on this page is reproduced from the richly embroidered mantle of the King. Date, circa 1900 B.C.

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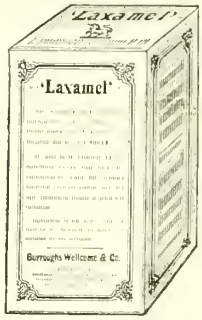

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d that he is already booking advertising space. Ask him ect what he has to say about it.

SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

The opium poppy is the Minor plant considered this week (p. 34).

An important decision under the Shops Act is discussed on p. 51.

Eight prizes are awarded to prescription-problem solvers, and a new problem is submitted (p. 35).

Some fundamental questions as to compounding and dispensing are being issued by Mr. Saville Peck. See p. 51.

A "Country Cousin" gives a hint to wholesalers in London as to how they lose business by indifferent attention to visitors (p. 66).

Mr. Herbert Skinner, one of the Pharmaceutical Council candidates, follows up "Incertus" as to voting (p. 66); so does "Xrayser II." (p. 47).

The Pharmaceutical Council has appointed a committee to confer with the British Medical Association as to the Insurance Act Drug Tariff (p. 51).

The correspondence topics are this week practical and topical. It includes about a dozen letters and notes, besides replies to many queries (pp. 66-68).

London exporters of goods to the United States are up in arms against new invoice regulations which are calculated to secure for American buyers the source of the goods (p. 49).

Panel doctors in Scotland are being asked by the Insurance Commissioners what they think of the increased dispensing-fees proposed for panel chemists, as given on p. 50.

Dr. Judd Lewis communicates an interesting and informative article on spectrum analysis, with particulars and illustrations of the application of the spectrophotometer to the detection of metals (pp. 52-54).

News of the Week.

The Mysore duty on ganja has been increased (p. 45).

Liquid paraffin is at present all the rage in Australia (p. 38).

Another Insurance conference of Lancashire representatives is to be held at Preston (p. 59).

More about leather chemistry is reported under the Society of Chemical Industry (p. 46).

The names of those who passed the Apothecaries' Assistants' examination in April are on p. 35.

A number of new points in regard to Insurance dispensing have been discussed at meetings reported on pp. 59 to 61.

The Western Australia Food and Drug Regulations are so strict as to be oppressive. See the report of cases on p. 39.

Professor van Italie and Mr. J. E. Purvis have been elected honorary members of the Pharmaceutical Society. Their portraits are given on p. 42.

On Wednesday the Pharmaceutical Council awarded the Pereira medal to Mr. E. W. Fair (East Linton). The Council-meeting was livelier than usual, a Scotch breeze arising. The Scientific Sub-Committee co-opted twenty outside members on it was a feature. Discounting of chemists' accounts was dealt with and the annual report submitted (pp. 55-58).

Mr. Lloyd George in his Budget speech avoided stock subjects, such as spirits and patent medicines. He secures the eight millions wanted for social reforms, Insurance, and local rates by higher taxing of incomes over 1,000*l.* and increasing the death duties. Extracts from his speech of special interest to chemists are printed on pp. 44-45, and comments upon it on pp. 48-49.

Trade and Market Matters.

Market changes comprise an advance in Japanese refined camphor, chrysarobin, colocynth apple, citric acid, and camphor oil. Cod-liver oil, morphine, and menthol (c.i.f.) are firmer. Lemon, bergamot, and star-anise oils, Japan wax (c.i.f.), celery-seed, ammonia sulphate, shellac, senega, quicksilver (seconds), and cocoa-butter are all in favour of buyers (p. 62).

Minor Botany.

Being the sixteenth of a series of articles for pharmacy students which commenced on January 3, 1914.

THE opium poppy (*Papaver somniferum*, L.), like most cultivated plants, exists in a number of varieties. Its original home is probably Asia. The white poppy, so called from the colour of the ripe seeds, is best known in this country, being formerly much cultivated in Lincolnshire and Yorkshire for the sake of the ripe fruits (poppy-capsules), but the industry is now almost moribund. The

Papaver somniferum.

plant is an herbaceous annual, with a round, smooth stem, often branched and usually about 3 ft. high. The large leaves, which closely clasp the stem, are bluish-grey (glaucous) in colour. They are variously lobed and toothed. The large flowers are usually white, but may be coloured. They have the same structure as those of the red poppy already described. All the parts of the plant exude a milky juice (latex) on injury from a special tissue-system forming a network in the rind of the plant (laticiferous vessels), formed by loss of transverse walls of cells arranged end to end. The function of this latex is little understood. It contains, among many other substances, waste products such as resins, gums, caoutchouc, and mineral salts, which led to the laticiferous tissue being regarded as designed for the reception of excretory matter. Nowadays the tendency is to regard this tissue-system as a means of affording rapid transport of plastic substances (*i.e.*, for tissue-building) and food-products. Analogy with other plants shows there is good reason for this view. Euphorbias have a highly developed laticiferous system of another type (cœnocytic). This consists of continuous tubes with many nuclei and marked apical growth. These cœnocytes branch, but never have transverse walls; they closely resemble a fungal growth ramifying in the cortex of the plant. In some euphorbias with highly developed laticiferous system the phloem or soft bast, which ordinarily is the chief food-transmitting tissue, shows reduction evidently owing to its functions being superseded by the former. Reverting to the opium poppy, it is noteworthy that laticiferous vessels are most numerous in the outer rind of the unripe capsule, and this contains most latex at a time when the developing seeds call for the greatest supply of food-materials. It is at this period that the capsule is incised in opium-producing countries, and the exuded latex allowed to dry naturally (usually for twenty-four hours) on the poppy-head (inspissation) and scraped off to form opium. The narcotic alkaloids appear to be formed only in the latex of the capsule. Botanists until quite recently have overlooked the significance of the presence of alkaloids in the fruiting portions of plants. In the poppy, belladonna, and conium it is the flowering tops that are richest in alkaloid, indicating connection with the rapid formation of reserve nitrogenous matter or proteins present in seeds. That toxic substances may be transformed into non-poisonous products is evident during the ripening of conium-fruit. In the poppy it is apparently carried further, the ripened seeds (mawseed) containing no soporific alkaloids. The ripe capsule usually opens by pores just below the stigmas, and the loose seeds are shaken out a few at a time as the capsule is swayed about in the wind (censer mechanism of seed-dispersal). The harder the breezes blow, the more seeds are shaken out, and the further they are jerked from the parent plant.

Toilet Hints.

We are indebted to a pharmacist in the United States for the subjoined notes on toilet-preparations, which have been suggested by what is said on the same subjects in "Pharmaceutical Formulas."

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Wrinkle-remover.

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Sunburn.

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Muscle Oil.

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Insect-bites.

Preventive remedies should be of such a character as to leave a film of something on the skin. An alcoholic solution of castor oil suitably perfumed is good, but still better are preparations having a soap-base. Linimentum saponis is an excellent preventive, but might be stronger in soap. Mosquitoes will not bite through a layer of soap.

Paraffin Cold-cream.

The popularity of this variety is due to its beautiful appearance and keeping qualities. The simplest formula makes the best preparation. Spermaceti does not improve the cream, but a beautiful finish is given to paraffin cold cream by the addition of a little ozokerite. The cream is poured hot into jars, and on cooling will be found to have a surface of great brilliancy. The amount of white wax should be cut to a minimum (not over 5 per cent.) to avoid any possibility of rancidity.

Skin-preparations.

Some of the more recent skin-lotions which have attained great popularity are simply dilute solutions of borax. Borax is popularly supposed to be a great cleanser for the skin, and it has some value in this direction particularly for those troubled with an oily or shiny skin. Witch-hazel is a common addition, but alcoholic lotions should be avoided, as they over-stimulate the skin and cause it to crack. Soap and stearate creams are ruinous to the skin destroying the outer cuticle and causing severe eruptions if steadily used.

The Board of Trade Returns for April show a fall of 1,329,035*l.* in imports (61,624,702*l.*) compared with April 1913 and a decrease of 2,375,243*l.* in exports (total, 50,736,066*l.*), but large increases compared with April 1912. Imports for the four months of this year have fallen by 538,742*l.*, and exports increased by 2,179,785*l.* Chemical imports were 1,117,447*l.* in April, and exports 2,052,735*l.*, both showing decreases. More details will be given next week.

PRESCRIPTION PROBLEM.

EXCEPTIONAL interest was taken in the problem in prescription-reading which appeared in the *C. & D.*, March 28, p. 66, as shown by the large number of postcards received from our readers. The correct transcription of the script reproduced in that issue is as follows :

Fe et Am Cit ʒij Liq
Hydrarg Perchlorid ʒvj Tr.
Nuc vom ʒj Liq Arsenicalis ♏36
Spt Chlorof q.s. Aq ad ʒvj
Sig. ʒss thrice daily.

At first sight the prescription appears quite ordinary when the prescriber's unusual method of running on the items is disregarded. One point which proved a stumbling-block was the quantity of spt. chlorof. This question divided the competitors into, roughly, two equal camps : those who detected the indefinite quantity as shown by the letters "q.s.," and those who could see in these letters definite amounts of the ingredient. The amount of the liq. arsenicalis was also in dispute. These difficulties which facilitated the work of judging the competition, as we were enabled to weed out at first inspection a large proportion of the cards. There remained then the smaller difficulty in the first ingredient, which some read as ferri quin. cit., instead of ferri et amm. cit. The award of prizes this month is larger than usual, due not only to the large number of competitors, but to the fact that the time of posting coincided in some cases of successful hierologists. To each of the following we award a copy of any of our Chemists' Dictionaries, and shall be glad if the successful competitors will let us know their choice.

London and Home Counties.

Mr. Arthur H. Hale, 60 Denmark Hill, S.E.
Mr. Harry W. Defraits, 34 Greenleaf Road, Walthamstow.

Provinces.

Mr. A. Ashfield, Ph.C., High Street, Shanklin.
Mr. J. M. Clarkson, c/o Mr. Barton, 57 Manchester Road, Southport.
Mr. A. T. Crooks, 97 Anfield Road, Liverpool.

Ireland.

Mr. R. Dillon, 107 Upper George Street, Kingstown.

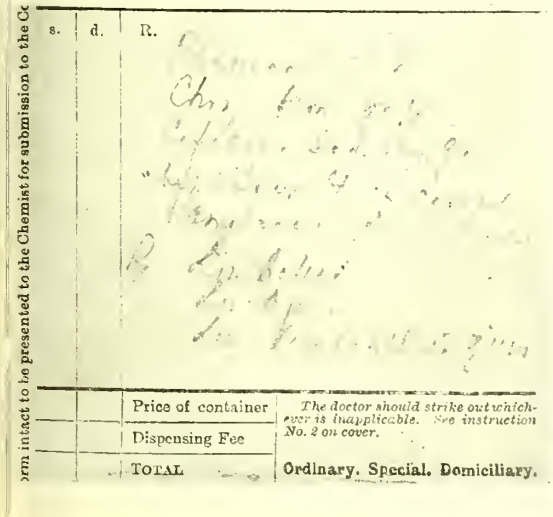
Scotland.

Mr. A. W. Ritchie, 198 High Street, Montrose.

Continent.

Mr. Adolf Kabrhel, The British Dispensary (C. Oddo), Mentone.

The following prescription forms the subject of the next competition. Postcards should be posted not later than May 15. Prizes will be awarded at the discretion of the Editor, and in case of close competition the time of posting will be taken into account :



ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Hertfordshire County Council has been recommended to authorise the Education Committee to provide spectacles for school-children requiring them.

The last half-yearly figures of the Morley Co-operative Society show that of the total purchases in the drug department 33 per cent. were from co-operative sources.

Sir Jesse Boot gave a dinner to Territorials employed by his companies at the Victoria Station Hotel, Nottingham last week. He has been re-elected President of the Nottingham Liberal Association.

The annual meeting of the Royal Institution was held on May 1, when the Duke of Northumberland was re-elected President. The reports presented included that of the Davy-Faraday Research Laboratory Committee.

The Holywell Guardians on April 29 decided to ask the medical officer for an explanation of the increasing cost of drugs supplied to the workhouse, which is now 70*l.* a year, whereas formerly it was from 17*l.* to 20*l.*

The shorthand classes at the Young Men's Christian Association, Winchester, are taught by Mr. R. A. Rowlands, chemist and druggist, who is on the staff of Boots, Ltd. Mr. Rowlands is a successful teacher, and his classes have done well during the past session.

At Chepstow (Mon.) the much-disputed question of the workhouse drug-supply has been readjusted on the basis of an arrangement between the Guardians and the medical officers, according to which the new salaries shall include the cost of supplying expensive medicines.

At the last Oxford Quarter Sessions Ector Herrero and Frin Rino, Spaniards, were each sentenced to three months' hard labour for stealing a camera, value 10*l.*, the property of Mr. C. J. V. Bellamy, chemist, 118 High Street, Oxford. They were also recommended for deportation.

The mourners present at the funeral of Mr. Thomas J. Barratt included Mr. Roland Pears, Mr. Roger Pears, Mr. Alfred Bird, M.P., Mr. and Mrs. Barton Kent, Mr. and Mrs. Reginald Barker, Mr. R. T. Treatt, and Mr. Stephens and Mr. Laffitte (representing Messrs. Roure-Bertrand Fils).

Leytonstone has been gaily decorated since last Friday in honour of a "Shopping Week," which has attracted large crowds. Various competitions in connection with the event are being held, and the local Tradesmen's Association has received great assistance from the National Cash Register Co., Ltd., whose president (Mr. John H. Patterson) has done so much to encourage shopkeepers in this direction.

Society of Apothecaries of London.

At the Assistants' examination held in April the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines :

Aldwinckle, M. J.	Heanley, C. M.	Palmer, G. K.
Allan, J. E.	Hill, M. E.	Perkins, E. G.
Ayliff, J. M.	Hogg, H. S.	Preston, M.
Barford, E.	Hubbard, J. H.	Pridham, A. M. W.
Bischoff, I. A. E.	Jay, M. S.	Purnell, F. J.
Boswell, M. D.	Jenkins, G. O.	Rogerson, E.
Checkley, A. E.	Jones, F.	Russel, F. H.
Cordingley, D.	King, E.	Salmon, L. L.
Craddock, M. E.	Kirkland, A. A.	Schnabel, F.
Dunn, C. J. H.	Lloyd Jones, M. M.	Shortridge, B. R.
Eardley, G. M.	MacGeary, B.	Smith, J. I.
Finnegan, A.	Maddison, G. B.	Speak, A. J.
Fox-Davies, I. I.	Mason, M.	Speakman, F. M.
Gardner, E. S.	Morgan, T. L.	Sutherland, A. K.
Gorrie, M. B.	Myerscough, M.	Symons, M.
Greig, G. F.	Newcombe, V.	Whitehead, K.
Harris, R.	Nye, L.	Williams, F. B.
Harrison, A.	Oates, G.	Wimbush, H.

The Action of Drugs.

At the meeting of the Royal Society of London on April 30 Dr. J. A. Gunn, of Edinburgh, in a paper on the action of certain drugs on an isolated human tissue, outlined what may almost be regarded as a new line of

research in pharmacology. Working on the principle that it is possible to keep such involuntary contractile tissues as the heart and intestine of mammals alive for many hours by immersion in a suitable fluid, he showed a number of curves illustrative of experiments undertaken with various drugs on such isolated tissues, the advantage of the method being that it affords a means of determining in certain cases experimentally on man the action of drugs about which the information available is still very vague. At the same meeting Professor H. E. Armstrong described experiments with lipase, the fat-splitting enzyme, in which he proved that the reverse action is obtainable, glycerol combining with the fatty acid, and the amount of fat formed increases with the glycerol.

The "Bell-Moor" Nelson Relics.

"The Times" states that the late Mr. Thomas J. Barratt, managing director of A. & F. Pears, Ltd., has bequeathed to the nation a number of Nelson relics, including a *Victory* log for which he paid 4,000*l*. Mr. Barratt has directed that his house, "Bell-Moor," which cost him nearly 60,000*l*., shall be sold. His pictures are also to be sold, but the directions for sale do not apply to the blue china which Mr. Barratt had collected. The total value of the estate is expected to be between 300,000*l*. and 400,000*l*.

Birmingham Notes.

Sir Robert Simon, M.D., F.R.C.P., has resigned his position of honorary physician to the Birmingham General Hospital. He is a relative of the present Premier, and is *persona grata* with local pharmacy.

The business premises in Union Street of which Mr. Radford's pharmacy is a part came under the hammer last week, and were sold to Messrs. Horton, local estate owners, for between 5,000*l*. and 6,000*l*.

The passage of trams down Broad Street and Easy Row, as advocated by the City Council, has been frustrated by the authorities of the Homœopathic Hospital, who claim that it would be detrimental to its public services.

The Birmingham Trades Exhibition at Bingley Hall continues to attract numerous visitors. Among the principal exhibits of interest to pharmacy are those of Messrs. Cadbury (cocoa), A. Bird & Sons, Southall Bros. & Barclay, and Horlick.

Cheltenham Waters.

The Cheltenham Town Council on May 4 approved of the draft agreement with the United Chemists' Association, Ltd. for taking a supply of the Cheltenham waters for concentration, bottling, and sale as an aperient water. It was stated that since 1905 the Council had placed on the market the "Cheltenham Aperient Water," but not on a large scale. So far it had been a success considering the disadvantages under which the sale had been carried on. In regard to the credentials of the Association it is mentioned that it has over 1,000 members controlling 1,200 shops. Plans had been passed for a large factory in Cheltenham. The minimum amount of water which the Association undertook to take was 100,000 gals. per year, which, at $\frac{1}{4}$*d*. per gal., would produce 104*l*. 3*s*. 4*d*., which would more than provide for the annual estimated cost of 96*l*. 19*s*. 2*d*. The Association considered that the agreement would not be particularly beneficial to them unless they could promote a sale of at least 70,000 bottles per annum, which would involve them taking at least 280,000 gals. of water. The receipts to the Corporation if this was the case would be 291*l*. 13*s*., and the estimated expenditure 116*l*. 19*s*. 2*d*., which would mean that the Corporation would obtain 174*l*. profit.

Liverpool Notes.

The Edge Hill Cash Drug-stores and Leggett's pharmacy, Wavertree Road, have been closed.

Owing to the big drop in emigration, several steamers are laid up, and there is not the same demand for sea-sickness remedies and the usual laxatives that has been experienced during the last few years.

With the advent of the warmer weather, good window-shows are noticeable on every hand. Health salts, salines, insect-powder, hat-cleaners, soaps, water-wings, cameras, and all the summer paraphernalia are on view.

As the time is approaching for a new Pharmacopœia, the Chemists' Association has appointed a committee to revise the Liverpool Price-list, so that a new edition may be ready as soon as possible after the Pharmacopœia is out. Mr. Harold Wyatt is the Chairman, and Mr. Ernest Prebble the Secretary.

Acting on the remark in Mr. C. A. Hill's paper regarding "coalition" between wholesaler and retailer, the following gentlemen have been asked, and have consented, to give papers during the next session of the local Chemists' Association, commencing in October: Messrs. W. P. Evans, Percy Overton, and Gilbert Saunders.

The Chemists' Association has decided to have a picnic on Midsummer Day (Wednesday, June 24). Postcards have been sent to all the chemists in Liverpool and district asking each one to vote for one of four favourite places named. The place with the highest number of votes will be selected. Judging by the returns, and given good luck in the shape of weather, this social event should be a great success.

More changes are being made by Boots, Ltd., in the Liverpool area. The Lodge Lane premises are to be closed down, and other premises have been taken near to the New Pavilion, close to the junction of six roads. At the top of Hanover Street the whole of the ground floor of a new building in course of erection has been taken. A huge signboard notifies passers-by that these are the new premises of the above firm. They have moved into their new premises near to the Hippodrome, West Derby Road.

Manchester Notes.

A local wholesale house has sent out a notice to its customers warning them not to supply potassium carbonate of commercial quality for internal use.

In celebration of 160 years' successful business the well-known proprietors of Krüschen Salts are presenting, through chemists, to every purchaser of a 1*s*. 6*d*. bottle, a handsome picture called "Nature," by Sir Thomas Lawrence, R.A. Window-shows of Krüschen Salts are numerous.

The creditors of M. Fedderman, chemist and druggist, Oxford Street, Manchester, have appointed Mr. P. S. Booth, of the Association of Manufacturing Chemists, trustee of the estate, with a committee of inspection (see *C. & D.*, April 4, p. 43), to consider the best and most suitable means of disposing of the business.

There is much dissatisfaction in some parts of Manchester owing to certain chemists taking in and dispensing Insurance prescriptions after nine o'clock at night. It is felt that if Insurance patients cannot bring their scrips before nine o'clock they must be marked "urgent," which entitles the chemist to an extra 6*d*. The hours of business are distinctly printed on the back of the scrip.

The voting-papers for the election of the enlarged Council of the Manchester Pharmaceutical Association have been issued. There are eighteen vacancies in the nine districts, but in one of these there is only one candidate, while in three others there are three and in one district four candidates for the two vacancies in each, making twenty-two candidates in all. For the six vacancies for general members there are eight candidates, every class of pharmacy (educational, wholesale, and retail) being represented. The annual general meeting of the session 1913-14 will be held in fresh quarters this year—namely, the Albion Hotel in Piccadilly—on May 13, at 2.45 P.M.

Sheffield Notes.

Considerable damage has been done by fire at Messrs. J. B. Wheen & Son's, John Street, wholesale druggists. The cause of the outbreak is unknown.

Mr. A. H. Culverhouse has made rapid recovery since his operation. He has been able to leave the nursing home and proceed South to recuperate.

Mr. H. G. Williams, 118 The Moor, the Secretary of the local Pharmaceutical and Chemical Society, is always well to the front with his window-shows on the busiest thoroughfare in the city. He has at present a fine exhibition of Kodak and Butcher's cameras. In a second window is a seasonable display of health-salts and blood-mixture; his Arcade windows display perfumes and toilet-articles.

Contracts.

Settlement has been made of the following contracts :

Liverpool City Hospital.—Evans Sons Lescher & Webb, Ltd., for the supply of certain druggists' sundries to the City Hospital, Parkhill, until March 31 next.

Cardiff Mental Hospital.—T. Hodgkinson, Prestons & King for the supply of drugs for the ensuing twelve months at 32½ per cent. discount off list prices ; Ferris & Co., for druggists' sundries at 15 per cent. discount off list prices.

Shops Act.

The proposed closing order for chemists at Middlesbrough has been deferred at the request of members of the trade pending the framing of amended particulars.

The Goole Council propose to make an order for chemists to close on Thursdays at 1 P.M. The evening closing-times suggested are : Monday, Tuesday, and Wednesday, 7.30 ; Friday, 8 ; and Saturday, 10 P.M.

The Essex County Council have made an order for chemists at Grays to close at 8.30 P.M. on Monday, Tuesday, and Thursday ; 1 P.M. or 8.30 P.M. on Wednesday ; 9.30 P.M. on Friday ; and 10.30 P.M. or 1 P.M. on Saturday.

The Wolverhampton Town Council on May 2 issued an amended closing order for chemists and druggists which provides for closing at 1 P.M. each Thursday, Friday to be observed as the early-closing day when Christmas Day falls on a Thursday. The order is also extended to the retail sale of medicines, medical and surgical appliances, toilet-requisites, and photographic goods.

Sale of Food and Drugs Acts.

In the last reports of the analysts for Bethnal Green, Bermondsey, Deptford, and Hertfordshire all the drug samples examined were stated to be genuine.

The Lambeth analyst, Mr. A. H. M. Muter, F.I.C., reported upon ten samples of drugs last quarter. Of these one formal and one informal sample of Gregory's powder were adulterated in that they were made with magnesium carbonate.

At Ramsgate six samples of medicine were taken for analysis recently, and none were exactly in accordance with the prescription. In three cases the error in the amounts of the chief ingredients was considerable, and the dispensers have been cautioned.

Salford Town Council are recommended to appoint Mr. G. D. Elsdon, senior assistant analyst to the Birmingham Corporation, as public analyst to the borough and chemist to the River Irwell Conservancy Committee, at a salary of 250*l.* per annum, rising annually by 25*l.* to a maximum of 400*l.* per annum. He was a pupil of Mr. F. H. Alcock.

The Wandsworth analyst last quarter examined twenty-seven drug samples, including seven prescriptions. All the six samples of grey powder taken (three formal and three informal) were deficient in mercury (from 1.66 to 64 per cent.). Two samples of prescriptions (one formal and one informal) were adulterated, one being 28 per cent. and the other 23 per cent. deficient in potassium iodide.

The report of the East Riding (Yorks) County Council for the year ended March 31 states that analyses were made of the following drugs during the year :

Castor oil, 12 ; camphorated oil, 20 ; camphor, 5 ; tincture of capsicum, 4 ; eucalyptus oil, 15 ; powdered ginger, 7 ; tincture of ginger, 3 ; Gregory's powder, 2 ; glycerin, 8 ; oil of juniper, 6 (one successful prosecution) ; laudanum, 6 ; liquorice-powder, 10 ; powdered magnesia, 1 ; light magnesia, 3 (one adulterated) ; heavy magnesia, 3 (three adulterated, one successful prosecution) ; milk of magnesia, 3 ; gall ointment, 10 (one adulterated) ; zinc ointment, 4 ; paregoric elixir, 8 (two adulterated, two successful prosecutions) ; citrate of iron and quinine, 2 ; sulphate of quinine pills, 4 ; rhubarb tincture, 10 (one adulterated) ; sulphate of soda, 4 ; syrup of squills, 1 (adulterated) ; oil of santal, 2 ; seidlitz powders, 5 ; milk of sulphur, 1 ; ipecacuanha wine, 6.

A Bogus Doctor.

At the London Sessions on May 1, John Alexander Bismark Taylor (52) was sentenced to eighteen months' imprisonment, with hard labour, for having obtained money by false pretences, representing that he was a qualified medical man. Dr. Bateman (Secretary of the Medical Defence Union) said the prisoner had never been on the English register. Other evidence showed that he had been a schoolmaster at Colerne, Wilts, and subsequently was sentenced to eighteen months' imprisonment for obtaining money by false pretences. After his release and a period as a "coach," he removed to Tackley, Oxfordshire, where he posed as "Dr." Taylor. He came to London in 1908, and was again sentenced at the Old Bailey on two occasions. When he was set at liberty he went to Clapham, and practised as a doctor, describing himself as a physician and surgeon, and having a well-equipped surgery and dispensary.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. Robert Mellon, Ph.C., Lisnagarvey, Lisburn, has opened a pharmacy at Dame Street, Dublin.

The death took place last week of Mr. John Ward, secretary of Deans, Logan & Co., Ltd., cordial manufacturers, Belfast.

Mr. J. E. O'Neill, J.P., druggist, Maghera, has been elected unopposed a county councillor for the Tobermore Division of Londonderry.

Mr. James McDowell, registered druggist, has taken over the business formerly carried on at 201 Newtownards Road, Belfast, by Mr. J. Browne.

Mr. Timothy Lynch, Ph.C., Cahir, has passed with distinction the First Professional examination of the Royal Colleges of Physicians and Surgeons in Ireland.

The Cork Chemical and Drug Co., Ltd., Cork, have been appointed contractors to the Bantry Union for drugs and surgical appliances at a rebate of 28 and 33⅓ per cent. respectively.

Mr. William O'Connor Hunt, Ph.C., Knockanure, Newtownsandes, co. Kerry, has passed the Second Professional examination of the Royal Colleges of Physicians and Surgeons in Ireland.

Mr. Robert Hastings, J.P., registered druggist, Newcastle, co. Down, is taking a prominent part in the promotion of a fund for the families of several fishermen who perished in a recent accident off the co. Down coast.

The committee of the Limerick District Asylum have accepted the tender of Messrs. Boileau & Boyd for the supply of medicines at 26 per cent. discount, and that of Messrs. Fannin & Co. for surgical appliances at 33 per cent. off.

Dr. J. C. McWalter, whose efforts towards the reinstitution of evening classes for medical students have been referred to before, is endeavouring to obtain a contribution from the Dublin Corporation towards the cost of evening lectures.

The Police Committee of the Belfast Corporation has recommended the renewal of the poison-licences granted to Mr. F. E. Smith, seedsman, 15 and 17 High Street, and Mr. Andrew Graham, Ann Street. A licence has also been granted to Mr. Arthur Samuel Ritchie, seedsman, 51 and 53 High Street.

Mr. James Frazer Brown, Ph.C., has opened a pharmacy at 76 Shankill Road, Belfast, where Dr. Hutchinson formerly carried on business. Mr. Brown was previously manager for Messrs. Lynass, and was also for a time with Messrs. Grattan. He served his apprenticeship with Messrs. Boyers, of Sligo.

In response to a demand by the Local Government Board for an explanation as to the cause of a month's delay in getting samples of drugs analysed, the medical officer of the Ballyragget dispensary of the Castlecomer Union said it was due to the fact that the samples sent got broken in transit. A similar complaint was made against Dr. Doyle, of Bridgetown, in the Wexford Union, and he replied that he packed the samples, but the messenger, instead of posting them, brought them to his house. As soon as he discovered the error he made out a fresh lot of samples to be forwarded.

The Supply of Tuberculin.

Messrs. James Tate, R. McKnight, D. W. Elliott, and James Guiler attended the last meeting of the Tuberculosis Committee of the Belfast Corporation regarding the supply of medicines under the Corporation's scheme for the treatment of tuberculosis, and asked that the existing arrangements with the Insurance Committee should be continued by the Corporation when their scheme is put into operation. Asked what these arrangements were, Mr. Tate said that they are the same as apply in the case of Medical Benefit in England—viz., about 40 per cent. on the price-list, with a minimum charge for small quantities. They were informed the Committee would consider the matter.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. A. S. Weir, chemist and druggist, Kemnay, has been elected a member of the local School Board, with the largest number of individual supporters.

Mr. D. Storrar has taken the first prize and Mr. J. G. Low (both chemists) the second prize at the exhibition of Kirkcaldy Photographic Society. Mr. Storrar's subject is "In the French Highlands."

Edinburgh.

Mr. Charles Hanan, of Hugh Hanan, seedsman, 9 Bank Street, Edinburgh, is applying for an agri-horticultural poisons-licence.

At Murrayfield, on Wednesday, April 29, St. Cuthbert's Athletic Football Club defeated Pharmacy United by three goals to nil. The latter have had their revenge on Aberdeen, beating them by three to one.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

Pharmacists in Congress.—The 1914 "General Meeting" of the General Association of French Pharmacists is to be held at Paris during the last fortnight of June.

In Days of Old.—Some curious notes of the very early days of pharmacy at Montpellier appear in a Parisian trade journal. In the fourteenth century the Dominican convent of this town was occupied by sixty monks, and they received "brothers" from all European nations, who came thither purposely to study pharmacy in this famous centre. The University treasure chest was kept in the sacristy of the Dominicans, and any University official failing to attend Sunday morning Mass paid a fixed sum into the said coffer. The sale of drugs was strictly limited to doctors and apothecaries as far back as 1204. The outsider caught peddling such merchandise was placed on a donkey and paraded through the streets by the students, who applied "burning birches" to his face, hands, and legs. As to bankrupts, they were required to repair on a Sunday to St. Firmin's Church, and there knelt ("detractis braccis et super positis") and received as many blows as their creditors cared to inflict. The debtor ejaculated "Paga te" (pay thyself), and when his punishment was over he was legally freed from all obligation to pay.

The Salon of the Société Nationale, the earlier and smaller of the two rival art exhibitions, contains a few medical portraits. Mr. Koopmans, an American painter, contributes a portrait of Dr. Robinson, and M. Lignières depicts Dr. Duchaussoy, founder of the French Ladies' Red Cross Association. M. Borel's small marble bust of Dr. Roux, of the Pasteur Institute, does not strike one as a remarkable portrait, or as doing justice to a fine if somewhat ascetic face.—The Salon des Artistes Français, the more important of the two great annual Parisian art exhibitions, opened as usual on May 1. The number of works exhibited this year is larger than ever, but the proportion of pharmaceutical or scientific interest is small. The medical profession is wonderfully well represented in portraiture, though the exhibits usually take rather a sculptural than a pictorial form. Dr. Roux has his bust carved in oak by M. Bloch and figures in a miniature by a lady. Dr. Cattier, Vermersch Dumontpallier, is done in "imperishable bronze," Drs. Culcer, Leon MacAuliffe, E. Rondié, Lefilliatre, and Charles Paul in artistic plaster, and Dr. Guiraud, who represents the Tarn district in the French Parliament, in marble. There are also a marble *bas-relief* of M. Duclaux, Director of the Pasteur Institute from 1895 to 1904, plaster medallions of Dr. Vacher and of Dr. Auvert (the Army surgeon killed in Morocco), besides Drs. Louis Moinson and A. G. Bardet. Among the medals are M. Prudhomme's portraits of Henri Poincaré, Dr. Florand, and Dr. Blache, and M. Peter's medal of the twenty-fifth anniversary of the Pasteur Institute.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

General.

Radium.—It is claimed that the Radium Hill Co.'s Sydney laboratory will shortly be turning out 200 milligrams of radium per week, the ore coming from the Radium Hill mine at Olary, S.A.

Inter-State Commission.—Applications for tariff investigation have been received by the Inter-State Commission on the following articles specially handled by pharmacists: Perfumed spirits and bay rum, spirituous preparations, medicated confectionery, lanolin, perfumery and toilet preparations.

New South Wales.

Pharmacy Board.—At the meeting on March 10 the following were registered under the Pharmacy Act as holding the British qualification of chemist and druggist: Edward Harold Kidger, 160 Clarence Street, Sydney; William Kingston Tomkins, Pharmacy, Bankstown; Hugh Ross, 13 Glen Street, Milsons Point.

Pharmaceutical Society.—At the meeting on March 10 the President (Mr. Gray), the President of the Pharmacy Board (Mr. Wadsworth), with Messrs. Short and Laney, were appointed a deputation to wait upon the Minister with regard to the proposal to establish a College of Pharmacy at the University. It was agreed to join with the Pharmacy Board in appointing an assistant secretary. This is considered necessary owing to the increasing office work.

Queensland.

Liquid Paraffin.—There was an enormous run on liquid paraffin during March owing to articles in the lay Press advocating its use as an internal medicament. Stocks of liquid paraffin (B.P.) have run out, and the only article procurable is one having sp. gr., 0.875 at 25° C. and a boiling-point of 295° C. (uncorrected). The Department of Public Health has been active, and in some instances stocks of paraffin have been sealed down under the Health Act, which permits the seizure of any article, appliance, or utensil which appears to the appointed officer to be injurious or unwholesome, and gives him power to fasten, secure, or seal the same or any door or opening affording access to the same. In one case, at least, the window of a chemist's shop in which liquid paraffin is exhibited has been sealed by the inspector of the Health Department. It is stated that all the chemists whose samples of liquid paraffin did not conform with the B.P. requirements will be prosecuted. Some of the samples are stated to be too low in sp. gr. and in boiling-point; traces of vegetable oil (saponifiable) were present, and fluorescence was too pronounced. Sulphur-compounds were absent.

Tasmania.

Mr. Martin Rushton was elected President of the Pharmacy Board of Tasmania on February 19, and his partner, Mr. Walter Burton, has been elected President of the Pharmaceutical Society of Tasmania.

Victoria.

Melbourne College of Pharmacy.—This was the subject of an article in the Melbourne "Herald" of March 19. In the course of the article it was stated that chemists have set other employers a good example, as their apprentices are allowed time off to attend lectures, and in the case of country students there is a clause in the apprenticeship agreement to allow the transfer of the indentures to Melbourne for one year, so that even country apprentices are not debarred from attending the regular courses. The number of students taking the full course is twenty-eight.

Western Australia.

The British Pharmacopœia.—The Pharmaceutical Council some months ago forwarded a letter through the Premier to the home authorities concerning the preparation of future editions of the British Pharmacopœia. The Agent-General for Western Australia has received from the Pharmaceutical Society of Great Britain a letter signed by Mr. Edmund White, President, acknowledging the communication, and stating that the Council of the British Society is in favour of the recommendations from the Pharmaceutical Society of Western Australia. He is of opinion that the existing Act of Parliament is sufficiently wide to carry the recommendations into effect, but the General Medical Council has expressed a contrary opinion, maintaining that under the Act it is compelled to relegate the production of the British Pharmacopœia to a committee composed of medical men only. The Council of the Society has resolved that after the publication of the forthcoming edition, probably in 1914, it will no longer be prepared to provide material and the assistance of its staff for any future editions without alteration of the existing conditions.

Food and Drug Regulations.—Messrs. F. H. Faulding & Co. and Messrs. Felton, Grimwade & Bickford were prosecuted at Perth on March 24 for not declaring the principal ingredient in medicines sold, contrary to Regulation 61 made under the Health Act. Faulding & Co. sold to an inspector a bottle of Raffan's Catarrh Remedy which Harold Southern, assistant analyst, found to consist of (*a*) a liquid containing sodium salicylate, phenazone, and a soluble bismuth compound, and (*b*) tablets containing potassium chlorate and menthol. The formula had not been deposited with the Commissioner for Public Health, and the presence of sodium salicylate and phenazone was not declared on the label as required by the Regulations. Mr. Garner, managing partner for Faulding & Co., said his firm had sent a reprint of the Food and Drug Regulations to all manufacturers with whom the firm dealt. Sodium salicylate is not specifically mentioned in the Regulations, although it might be included in the term "antipyretic," which term he thought should be reasonably administered, otherwise it might include 75 per cent. of the drugs mentioned in the British Pharmacopœia. If the Department had issued a warning before taking action the firm would have written to the manufacturers and asked them to place the required information on the outside of the packages. Witness added that his firm intended to have an understanding with the Department on this question, or they would close down so far as these lines are concerned. The Magistrate hoped the firm would not close down as they are too useful, adding "It is certainly a case where there appears to be a necessity for an understanding." He imposed a fine of 2*l*., and costs The case again Felton, Grimwade & Bickford concerned the sale of a bottle of Vapo-cresolene which contained cresylic acid, the fact not being declared on the label. Mr. Wood, manager for the defendant firm, said that the article was stocked prior to the Regulations coming into force and that the public is protected by the word "Poison" on the label. The Magistrate, imposing a similar fine to that in the previous case, said that a conference on this matter should be arranged with the Department.

The Red Cross.—Leon Schatz, a druggist, Baltimore, has been released on $500 bail pending the action of the grand jury, on a charge of displaying the Red Cross illegally on three windows of his drug-store.

LEGAL REPORTS.

TRADE LAW.

Trade Custom Case.—The plaintiffs in the case of Kilner *v.* Grey (*C. & D.*, May 2, p. 41) are to appeal. In the King's Bench Commercial Court on May 5, Mr. Justice Bailhache said he would leave the case where it was, which would not prevent the plaintiffs from going to the Court of Appeal.

White Pepper Case.—The adjourned hearing of the summons against White, Palmer & Co. (*C. & D.*, March 28, p. 59) was listed at the Liverpool Police Court on May 6, but it was announced that the result of the Government laboratory analysis had only been received that morning, and it was agreed to further adjourn the case for four weeks.

Doctor and Chemist.—At the Shoreditch County Court on May 7, Bewells, Ltd., chemists, Pitfield Street, Hoxton, sued Dr. C. Macauley, Christopher Street, Finsbury, for 5*l*. in payment of gas and attendance and cleaning of the consulting-room attached to the shop, which defendant had occupied from January to April, principally for Insurance patients, of whom he was stated to have 1,500. The defence was that the doctor never agreed to pay anything. It was a *quid pro quo* arrangement—he to have the rooms free, and the chemist to do the dispensing. Judge Cluer decided that the doctor must pay for the gas, and gave judgment for the plaintiffs for 20*s*.

Increased Railway Rates.—Last May all the railway companies decided to raise their rates for the carriage of goods, and issued notices to that effect. The Railway and Canal Commission Court gave its decision on May 4, on applications made by the British Portland Cement Manufacturers, Ltd.; Messrs. Chas. Nelson & Co., of Stockton, near Rugby; Christopher Thomas & Brothers, Ltd., soap-manufacturers, of Bristol; and C. H. Parsons & Brother, Ltd., of Ashby-de-la-Zouch, against the G.W., the L. and N.W., the G.E., and the Midland Railway Companies, in which the traders complained of the unreasonableness of the rates, putting forward contentions as to their illegality. Mr. Justice Barnes, who presided over the Court, was of opinion that the companies had conformed with all the statutory requirements of the Act and the Board of Trade Order, and the Court decided in favour of the railway companies.

Companies and the Shops Act.—D. Evans & Co., Ltd., drapers, Brompton Road, appealed to a Divisional Court of King's Bench against a conviction under the Shops Act, 1912, on the grounds that (1) they, being a limited company, are not an occupier within Section 4 of the Shops Act, 1912; (2) the word "occupier" as used in the Act applies only to an individual, and not to a corporate body; and (3) a limited company is not a person within Sections 1 and 2 of the Summary Jurisdiction Act, 1848. The appeal was dismissed. In his judgment, Mr. Justice Avory said the Court had had to consider for many years whether the Summary Jurisdiction Act provisions are only applicable to a natural person, and in cases under the Food and Drugs Act, the Merchandise Marks Act, and similar statutes the Court had decided that there is nothing to prevent such statutes from applying to a limited company. As no contrary intention appears in the Shops Act, he thought that the appellants, though a limited company, were liable. Mr. Justice Rowlatt and Mr. Justice Shearman concurred.

What is an Invented Word?—Mr. Justice Sargant gave his decision last week in the application by Carl Lindstroem Aktiengesellschaft to register as a trade-mark the word "Parlograph," which the Trade-marks Registrar refused to register on the ground (1) that the mark was not used or intended to be used with reference to the manufacture of the goods so as to indicate the origin of manufacture, and (2) that "Parlograph" is not an "invented word" within the meaning of the Trade-marks Act, 1905. The Board of Trade referred the matter to the Court, and his Lordship now decided that "Parlograph" is an invented word, being a combination of two root-words (one French or Latin and the other Greek), the word as a whole not occurring in any dictionary or in common language. This judgment follows the principle of the "Solio" case. His Lordship said the other objection was more subtle, because the word had been used by the applicants before they applied for its registration as a trade-mark. However, the mark, if registered, would mean that it is used with reference to articles which are produced by this particular company; therefore his Lordship overruled the Registrar's decision.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

A Nutrient Wine Case.

In the King's Bench Division on May 7, before Mr. Justice Darling, Mr. Lort Williams (for the plaintiff) mentioned the pending special jury action of Sutton Bendle *v.* United Kingdom Alliance, Bertram Fox, and others. Counsel said Sir Frederick Low, K.C., M.P., is leading him for the plaintiff, and Mr. H. E. Duke, K.C., M.P., and Mr. H. A. McCardie are for the defendants. It is a case in which a number of witnesses would have to be called from the districts of Hull and Manchester—medical experts of high standing and public analysts.

Mr. Justice Darling: What is it all about?

Mr. Lort Williams: About a rather difficult medical question arising out of an alleged libel in regard to certain wines. There will be a question as to the analysis of the various ingredients of these wines and their effect upon health and so forth. In the circumstances we ask that the hearing should be fixed, and we suggest June 16.

His Lordship: It will be in the list on June 16, subject to the cases in the previous day's list.

Sale of Food and Drugs Acts.

Camphorated Oil: Analyst's Certificate.

At the Marlborough Street Police Court, London, on May 1, before Mr. Mead, the Foreign Chemists, Ltd., 49 Haymarket, London, were summoned, under Section 6 of the 1875 Act, for having sold as camphorated oil an article which was deficient in camphor to the extent of 27 per cent. of the amount prescribed by the B.P. The prosecution was undertaken by the Westminster City Council, on whose behalf the purchase was made. Mr. Rutton, solicitor, represented that authority, and Mr. Kirby (of Messrs. Neve, Beck & Kirby, solicitors), representing the Chemists' Defence Association, defended.

Mr. Rutton was proceeding to state his case when Mr. Kirby said that at that stage of the proceedings he would take objection to the certificate of the public analyst. A public analyst, in reporting upon the result of an analysis made of a sample submitted to him, could adopt one of three courses. He could either say that the sample was genuine, in which case he could say that it contained all the component parts it ought to contain; he could say that it was deficient in certain respects, in which instance he was required to give the necessary particulars; or he could say that foreign ingredients were present, and in that case he was required to give the percentages. In this instance the public analyst adopted none of these courses. He had not stated the constituent parts of the sample in question although he had done so with respect to the alleged deficiency of one of the ingredients. In these circumstances, Mr. Kirby submitted, the certificate did not conform to the legal requirements.

Mr. Rutton argued that the public analyst had complied with all the obligations necessary to make his certificate a correct and proper one. The article to which it applied was camphorated oil, and he certified that it was deficient to the extent of 27 per cent. in one of its most essential parts.

Mr. Kirby, in support of his objection, quoted the decision in the case Fortune *v.* Hanson. Here it was argued for the defence that the foreign parts of the sample were not stated, and that as water was one of the constituent parts, it was contended that it was necessary to state the whole quantity, whereas the public analyst had merely stated the excess. The analyst in his certificate stated that the sample contained 5 per cent. of added water to the prejudice of the purchaser. The Judges in this instance held that the certificate was bad.

Mr. Mead said it seemed to him that analysts ought to be pedantically particular with their certificates.

Mr. Kirby: I do not think it is pedantic.

Mr. Mead: I do not mean it in the ordinary sense. Continuing, he said that the objection raised by Mr. Kirby seemed to him to be a fatal one, and he therefore dismissed the summons. He would grant a case for appeal if it was asked for.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

Mears Ear Phone Co. (London), Ltd. (P.C.).—Capital 2,000*l.*

Homerton Bottle Co., Ltd. (P.C.).—Capital 1,000*l.* Objects: To take over the business of a glass-bottle manufacturer carried on by C. Flock at 47 College Street, Homerton, as the "Homerton Bottle Co." R.O., 36-37 King Street, Cheapside, E.C.

Sadler & Co. (Glasgow), Ltd. (P.C.).—Capital 20,000*l.*, in 1*l.* shares. Objects: To carry on business as manufacturers of and dealers in soap, candles, tallow, etc. The first directors are R. Sadler, J. S. Sadler, and W. A. Sadler. R.O., 101 Colvend Street, Glasgow.

Asiatic Industries, Ltd.—Capital 100,000*l.*, in 1*l.* shares. Objects: To carry on a produce business, including spices, cinchona, opium, and artificial manure, in the Malay States or elsewhere, and to adopt an agreement with the London Lumut Syndicate, Ltd. R.O., 59-60 Gracechurch Street, E.C.

Fairweathers, Ltd. (P.C.).—Registered in Dublin. Capital 500*l.*, in 1*l.* shares. Objects: To acquire and carry on the business of apothecaries and chemists carried on at New Ross, co. Wexford, under the style of "G. Robinson." The first directors are Mrs. I. M. C. Fairweather, P. A. Jeffares, and H. G. Fairweather. R.O., 7 Quay Street, New Ross.

Rowlands, Cash Chemists, Ltd. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of wholesale and retail chemists, drug-merchants, oil and colour merchants, dealers in photographic apparatus, manufacturers of artificial teeth, etc. The first directors are A. R. Rowland, E. Castle, and Mrs. A. E. B. Rowland. R.O., 8 Hessle Road, Hull.

Company News.

Mer Syren (1911), Ltd.—A. C. Copp, 19 Burnaby Gardens, Chiswick, was appointed receiver on April 22.

Benger's Food, Ltd.—The accounts for the year to March 31 show that, after allowing for depreciation and charges, the profit, including investment income, was 59,509*l.*, and 7,058*l.* was brought forward. The directors recommend a final dividend on the ordinary shares of 1*s.* 3*d.* per share, making 2*s.* 3*d.* for the year, placing 3,500*l.* to advertising and extension account, 17,500*l.* to reserve, and carrying forward 8,442*l.*

Williams & Co., Ltd. In the Court of Chancery, Dublin, last week, this company was granted leave to reduce the nominal share capital from 50,000*l.* to 25,000*l.* by paying off the preference shareholders in full and giving them a bonus of 10 per cent. on their money, also paying them 6½ per cent. on their investment up to the end of the past half-yearly dividend. Counsel for the applicants said the company was in the unique position of having too much money.

National Drug and Chemical Co. of Canada, Ltd.—For the year ended January 31 the net profit was 43,929*l.*, to which is added 4,109*l.*, profit on property sold, and 20,426*l.* brought forward. After paying the preference-share dividends, and writing-off organisation expenses (2,260*l.*), the balance of 20,617*l.* is carried forward. The contingent fund created last year has been utilised to wipe off the entire cost incurred in the issue of first preference shares, and to provide for certain other contingencies. The directors report a satisfactory growth in the company's business.

Charges or Mortgages.

Under the Companies (Consolidation) Act, 1908, Section 93, the mortgages or charges therein specified are (except in Scotland) void against the liquidator and any creditor of the company unless filed with the Registrar in accordance with the conditions laid down in the Act. Particulars of the following have been filed at Somerset House, London, W.C.

John Bell & Croyden, Ltd.—Issue on various dates from September 18, 1908, to December 17, 1909, of 4,500*l.* debentures, part of a series.

Gwilym Evans, Ltd.—Debenture, dated April 7, 1914, to secure 50*l.* Holder: E. H. Harris, 24 Kincraig Street, Cardiff.

H. & T. Kirby & Co., Ltd.—Mortgage in fee dated April 20, 1914, to secure 2,000*l.*, charged on certain land and premises in Willesden. Holder: P. G. Collins, 6 Bedford Row, W.C.

BANKRUPTCY REPORTS.

Re Robert Henry Huggins, Skegness, Lincoln, late Colne, Lancaster, Chemist and Druggist (see *C. & D.*, April 11, p. 44).—The following are trade creditors: Ayrton & Saunders, Ltd. (28*l.*); Bleasdale & Co., Ltd. (25*l.*); Butler & Son (18*l.*); Evans Sons Lescher & Webb, Ltd., London (21*l.*); Hirst, Brooke & Hirst (48*l.*); Lofthouse & Saltmer, Ltd. (157*l.*); Frederick Stearns & Co., London, (13*l.*); J. Timpson & Co., Ltd., London (19*l.*); J. Woolley, Sons & Co., Ltd. (34*l.*).

Re Morgan William James, 26A Gloucester Street, Cardiff, formerly of Llanelly, Chemist and Druggist.—The adjourned application by this debtor for his discharge (*C. & D.*, November 15, 1913, p. 57) was heard at the Carmarthen County Court on May 1 by Judge Lloyd Morgan. Mr. H. W. Thomas (the Official Receiver) said the general conduct of the debtor had been very unsatisfactory. In 1898 a composition of 7*s.* 6*d.* in the pound had been accepted, while in 1909 a receiving order was made, the dividend in the bankruptcy proceedings being 9*s.* 9¾*d.* in the pound. His Honour, in granting the discharge, suspended it for two years.

GAZETTE.

Partnerships Dissolved.

Alexander, J., and Alexander, G., South Road, Waterloo, Lancashire, chemists and druggists, under the style of John Alexander & Son.

Pryse, A. E., and Gover, K. F. P. R., Lower Road, Rotherhithe, S.E., and Arvon House, Woodpecker Road, New Cross, S.E., medical practitioners, under the style of Pryse & Gover.

Ward, S. F., and Gompertz, R. E. C., Mincing Lane, London, E.C., general merchants and importers, under the style of Stanley F. Ward & Co.

Bankruptcy Acts.

Adjudications.

Fedderman, M., Merry Bower Road, Higher Broughton, Salford, and St. James's Buildings, Oxford Street, Manchester, chemist.

Henry, D. C., late King Street, Great Yarmouth, surgeon.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. J. M. James, chemist, Llanelly, has removed his business to Upper Park Street, Llanelly.

Mr. C. B. Harrison, chemist, has opened a pharmacy at Upper Richmond Road, East Sheen, London, S.W.

Boots, Ltd., are making extensive alterations at their Terminus Road shop at Eastbourne, more premises having been taken in.

Mr. Robert H. Barker, pharmacist, has purchased the business of Mr. W. R. Greenwood, West-End Pharmacy, 24 Burnley Road, Todmorden.

The Stallman Co. (successors to the Stallman & Fulton Co.) announce that they have removed their offices to 229 Pearl Street, New York.

Mr. W. Osmond Morris, pharmacist, has purchased the business of the late Mr. W. Murton Holmes, Ph.C., at 21 High Street, Sutton, Surrey.

Councillor R. Agar, pharmacist, of South Bank, Yorks, who recently sold his business to Taylor's Drug Co., Ltd., has retired to Saltburn-by-the-Sea.

Mr. Thomas Brown, pharmacist, late assistant to Mr. J. Righton, Southport, has purchased the business of Mr. James V. Moore, 30 London Road, Stockton Heath, Warrington.

Mr. John Exley Wormald, pharmacist, of Sowerby Bridge, has purchased the business of Mr. W. Reynolds Black, Ph.C., 14 Southgate, Halifax. Mr. Black is retiring from the retail.

Mr. J. Austin Bayes, pharmacist, has disposed of his business at Fenny Stratford to Mr. F. H. Holyoak, of Leicester. Mr. Bayes intends to open a pharmacy at 25 Clifton Road, Rugby, after the necessary alterations.

BIRTHS.

Authenticated notices are inserted without charge.

Roberts.—At Cliffe Place, Bispham, Blackpool, on May 4, the wife of John Frimston Roberts, chemist and druggist, of a son.

Wilkins.—At Selukwe, Rhodesia, on March 22, the wife of George Sleeman Wilkins, pharmacist, of a daughter.

MARRIAGES.

Authenticated notices are inserted without charge.

Hall—Shaw.—At St. Hilda's Church, Leeds, on April 29, George Samuel Hall, pharmacist, son of Mr. J. F. Hall, Brook Place, Leeds, to Rose Mary, only daughter of the late Mr. William Shaw and Mrs. Shaw, 41 Cross Green Lane, Leeds.

Hanbury—Lycett.—At the Church of the Redeemer, Bryn Mawr, near Philadelphia, on St. George's Day, April 23, Reginald Janson Hanbury, son of Mr. Frederick Janson Hanbury, of Brockhurst, East Grinstead, to E. Margaret Lycett, daughter of Mr. Edward Howes Lycett, of Kirkwood, St. Louis, U.S.A.

Harry—Mulcahy.—At Fulham Registry Office, London, S.W., on April 29, Charles Harry, chemist, son of Mr. Seth Harry, chemist, Okehampton, Devon, and manager Bruce's, Ltd., 228 High Road, Chiswick, to Elizabeth, daughter of the late Mr. Patrick Mulcahy, sculptor.

DEATHS.

Authenticated notices are inserted without charge.

Hassard.—At Little Britain Street, Dublin, on April 26, Mr. Robert Hassard, proprietor of "Vita Leo," a medicinal preparation which for years past had an extensive sale locally.

Henderson.—At Belfast, on May 1, Sir James Henderson, D.L., Lord Mayor of Belfast. In 1898, when the British Pharmaceutical Conference met in this city, under the presidency of Mr. Charles Symes, Sir James welcomed the members of the Conference and, with Lady Henderson, gave a reception in the Exhibition Hall. He was proprietor of the "Belfast Newsletter."

Loxley.—At a nursing home, Clapham Common, London, S.W., on April 17, Leslie Wakefield Loxley, eldest son of Mr. C. H. Loxley, chemist, 178 Northcote Road, Wandsworth Common, London, S.W., aged seventeen. Master Loxley died from shock the day after an operation which was considered slight at the time.

Stephens.—At 6 Milton Avenue, Highgate, London, N., on May 1, Mr. Evan Stephens, aged eighty-four. Mr. Stephens was one of the oldest travellers connected with the British drug-trade, and until last Christmas was doing a regular journey in London on behalf of Messrs. Jules Denoual & Co. He then took a chill, which was followed by congestion of the lungs and bronchitis, and although he remained mentally as strong as ever, his physical strength gradually ebbed, and he succumbed on Friday of last week. He was the son of a farmer, and came of a healthy race, while the first twenty-five years of his life were spent in the country; then he came to London in the mail-coach days, and entered the perfumery and soap trade, getting a position with Messrs. Whitaker & Grossmith, Silk Street, E.C., Mr. Whitaker being a personal friend—indeed, one of Mr. Stephen's sons was named after him. After Mr. Whitaker's death Mr.

Mr. E. Stephens.

Stephens joined the Crown Perfumery Co., then at Old Bailey, and represented them in London for many years. He then started business on his own account, but during the latter years of his life he had been representing Messrs. Jules Denoual & Co. He was twice married, and had been a widower since 1909. By his first marriage he leaves one daughter and three sons. Of the latter, Mr. F. C. Stephens is well known in the London drug and chemical trades, through his association with Messrs. May & Baker, Ltd. Mr. Evan Stephens was a man of sterling character, and, though quiet and unassuming, was much respected by those who had the pleasure of his acquaintance, and his death leaves a large circle of mourning friends.

WILLS PROVEN.

Mr. Theodore John Rouw, Ph.C., Ruthin, who died on December 26, left estate valued at 2,898*l.* 15*s.* 3*d.* gross, with net personalty 177*l.* 4*s.* 5*d.*

Mr. Alexander Taylor Low, chemist and druggist, 73 Dalmeny Street, Leith, who died on June 22, left personal estate in the United Kingdom valued at 315*l.*

Mr. Arthur Bertie Taylor, 4 Belle Grove, West, Spital Tongues, Newcastle-upon-Tyne, who died on January 26, left estate valued at 1,608*l.* 12*s.* gross, with net personalty 252*l.* 17*s.*

Mr. John McClinton, 35 Adelaide Park, Belfast, who died on January 4, aged ninety-eight, left personal estate in the United Kingdom valued at 3,586*l.* 9*s.*, of which 159*l.* 10*s.* is in England.

Mr. Charles William Hands, King's Norton, Birmingham, for over forty years a representative of W. J. Bush & Co., Ltd., Ash Grove, London, who died on March 16, left estate of the gross value of 2,450*l.* 17*s.* 3*d.*, of which 1,575*l.* 16*s.* 6*d.* is net personalty.

Mr. James Harley, chemist and druggist, James Square, Crieff, who died on February 10, left personal estate of the total value of 5 892*l.*, of which the personal estate in the United Kingdom amounts to 5,720*l.* Probate of his deed of settlement has been granted to his son, Mr. John Rogers Harley, Mr. Wm. Watts, chemist, Crieff, and Mr. Thos. Wallace Dunlop, Edinburgh.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. F. Ritson, chemist and druggist, Carlisle, has been elected to fill a vacant seat on the City Council.

Mr. Wm. Arkle, chemist, Lancaster, has been reappointed Vicar's Warden in Christ Church parish.

Mr. T. M. Rutherford, representing Messrs. Burgoyne, Burbidges & Co., has removed to 15 Grove Street, Newcastle-on-Tyne.

Mr. Harry S. Levy, managing director of Elliott Bros., Ltd., O'Connell Street, Sydney, is visiting England and the Continent for a few months.

Mr. A. V. Baxter, managing director Erasmic Co., Ltd., is leaving by the *Mauretania* on June 6 for New York, Montreal, and Toronto. Letters addressed c/o Messrs. Arnold & Co., 3 West Twenty-second Street, New York City, will reach him.

Mr. H. C. Gooseman (Vinolia Co., Ltd.) was at the Freemasons' Hall, London, on Tuesday evening, May 5, presented with a Past-Master's collar and jewel of office, and also a handsome silver rose-bowl, on vacating the W.M.'s chair of the Grosvenor Lodge, No. 1257.

A "London Gazette" notice states that Captain A. C. Vallance has resigned his commission in the 7th battalion of the Lancashire Fusiliers, and is granted permission to retain his rank and to wear the prescribed uniform. Captain Vallance is a director of Messrs. James Woolley, Sons & Co., Ltd., Manchester.

Mr. R. Feaver Clarke, Ph.C., as Hon. Secretary of the fund to provide a permanent creche in celebration of the Diamond Jubilee of the Gravesend Ragged School, explained the steps which had been taken to secure this at the ceremony of laying the foundation-stone of the creche last week. A sum of 600*l.* is still required to ensure the creche being opened free from debt, some 800*l.* having already been collected or promised.

Professor L. van Italie, Ph.D., of Leyden, who was on Wednesday elected an honorary member of the Pharmaceutical Society of Great Britain, was President of last year's International Congress of Pharmacy. He is a pharmacist, but since 1902 has been engaged in professorial work. In that year he was appointed a Professor at the Veterinary School, Utrecht, and became Assistant Professor at the University of Utrecht in 1906, a year later becoming Professor of Pharmaceutical Chemistry at the University of Leyden. This position he still holds.

Professor L. van Italie.

Mr. John Edward Purvis, M.A. (Cantab.), F.I.C., F.C.S., the other new honorary member of the Society, is University Lecturer in Chemistry and Physics in their application to hygiene and preventive medicine at the University Chemical Laboratory, Cambridge. Mr. Purvis is an Associate of the Royal College of Science of Ireland, and has contributed papers to the Chemical Society, of which he has been a Fellow since 1901. Mr. Purvis's connection with Cambridge dates back to 1891, when he passed Part I. of the Natural Science Tripos, and he took the second part the following year. He is an authority on water-analysis, and a strong advocate of the reform of milk-supply, both local and national. He is one of the University representatives upon the Borough Council, and has done much useful work in connection with sewage-disposal and all questions connected with the public health. On the latter subject he conducts a course of study for post-graduate students who are proceeding to the diploma in Public Health.

Mr. J. E. Purvis, M.A.

COLLEGE NOTES.

The British Optical Institute, 20A Grove Road, Brixton, S.W., will have a series of vacation classes during July, August, and September, at which individual tuition, under the Principal's supervision, will be given.

Bath College of Pharmacy.—At the recent terminal competitive examinations the following awards were made: Silver Medal—Mr. R. G. Nicholls. Certificates of Merit—*Practical Chemistry*, Mr. C. B. Peake; *Dispensing*, Messrs. H. C. Griffiths, C. B. Peake, and J. S. Sharpe; *Chemistry and Physics*, Messrs. T. E. Evans, R. G. Nicholls, and J. S. Sharpe; *Pharmacy and Latin*, Messrs. T. E. Evans, R. G. Nicholls, C. B. Peake, and G. C. Williams; *Materia Medica*, Messrs. T. E. Evans, R. G. Nicholls, and C. B. Peake; *Botany*, Messrs. T. E. Evans, R. G. Nicholls, C. B. Peake, and J. H. Sharpe.

TRADE NOTES.

The Telephone Number of Mr. H. K. Lewis, medical bookseller, 136 Gower Street, London, W.C., is now "Museum 1072." Mr. Lewis is the publisher of Martindale's "Extra Pharmacopœia."

New Showcards for peptogenic milk powder and panopepton can be obtained by retailers thereof on application to Messrs. Fairchild Bros. & Foster, 64 65 Holborn Viaduct, London, E.C.

El Toro is the name of a brand of guaranteed pure refined extract of liquorice made by Drogueries & Huileries Anversoises, Ltd., Antwerp, about which particulars are given in our advertisement-pages.

The Crown Perfumery Co., Homerton, are adopting daylight-saving hours of business during the summer months. On and after May 1 until September 30 their office hours will be from 8 a.m. to 5 p.m.; Saturdays, 8 a.m. to 12 noon.

Oxygen Straw-cleaner.—Messrs Ernest Eck & Co., 20 Bournvale Road, Streatham, London S.W., whose oxygen straw-cleaner was referred to recently, are making in this issue an offer of advertising-material for window-display.

Messrs. G. H. Gledhill & Sons, Ltd., describe and illustrate in an advertisement a new cash-register made by them at Trinity Works, Halifax. This register automatically adds the sales and issues a printed receipt, of which it keeps a copy. The illustration of the mechanism shows its ingenuity. Chemists in the metropolitan area may see the register at the London offices, 153 Cheapside, E.C.

"Aqua" in Insurance prescriptions should be filtered, and there is nothing better for that purpose than the Berkefeld filter. One of our contributors regards the universal use of distilled water in dispensing as something in the nature of a fetish. Although we cannot go so far as that, we know some public water-supplies are admirably suited for dispensing-purposes, and the Berkefeld Filter Co., Ltd., 121 Oxford Street, London, W., have received testimony from many dispensing chemists of the value of their special filters for sterilising water. Particulars can be obtained from them on application.

Technique of Injections.—The Hoffmann-La Roche Chemical-works, Ltd., 7 and 8 Idol Lane, London, E.C., send us a booklet, entitled "Injections 'Roche,'" which gives details of the various methods of hypodermic medication. Illustrations are used to show exactly the method of inserting the needle of the syringe in intravenous and intramuscular injections, and minute particulars are appended of the technique applicable in these cases or for subcutaneous injection. The company supply digalen, omnopon, and omnopon-scopolamine in special forms for injections, and of these particulars are also given in the booklet, which is worth sending for.

Royal Visit to Port Sunlight.—The April issue of "Progress," the house organ of Lever Bros., Ltd., and the associated companies, contains a most interesting account of the visit of King George V. and Queen Mary to Port Sunlight on March 25. This shows that the visit was more thorough and intimate than the newspaper accounts of it gave any idea of. The description is so well illustrated that on reading it one almost feels that one is accompanying the Royal party. Sir William Lever, Bart., and his son, Mr. W. Hulme Lever, were the principal conductors. We notice that the Queen's casket of Port Sunlight products contained two Vinolia perfume sachets, five bottles of Vinolia perfumes, and one cake each of Plantol soap, Vestal Vinolia soap, and Sunlight soap.

Lavender Moth-tablets.—Messrs. Arthur H. Cox & Co., Ltd., Brighton, are producing an excellent moth-tablet, which should sell well at this season of the year, when ladies are thinking of putting away their winter furs. The tablets are composed of camphor, oil of lavender, formalin, oil of sandalwood, naphthalene, and one or two other ingredients. They are $\frac{5}{8}$-in. octagonals, and coloured violet. There are thirty-two tablets in a lacquered-tin box, to retail at 6*d.*, and the naphthalene odour, which is objectionable to some people, is well disguised; in fact, the camphor odour is pronounced, and, with the perfumes, produces an agreeable odour. Messrs. Cox supply the tablets at 3*s.* 6*d.* per doz., packed in a silent salesman outer, and they provide a showcard which is a help in selling the tablets.

Antiseptic Premier Paste and Photo-mountant.—A paste that will keep soft and sticky in any climate without becoming mouldy or fermenting has long been an office and household desideratum. It is now provided by the British Manufacturing Co., 3 Beechcroft Road, Leytonstone, Essex, who have submitted to us specimens of their Antiseptic Premier Paste, one of them made in September 1912, and since kept exposed to the air, the jar being covered only with a sheet of paper loose. This specimen shows no sign of fermentation or mould, nor lumpiness, and is in all respects as good as it was on the day it was made. The paste is beautifully white, strongly adhesive, and is put up in 1-lb. bottles, with cup and brush, to retail at 9*d.* to 1*s.* It can be obtained from the makers or from wholesale houses at 7*s.* per doz., or 72*s.* per gross.

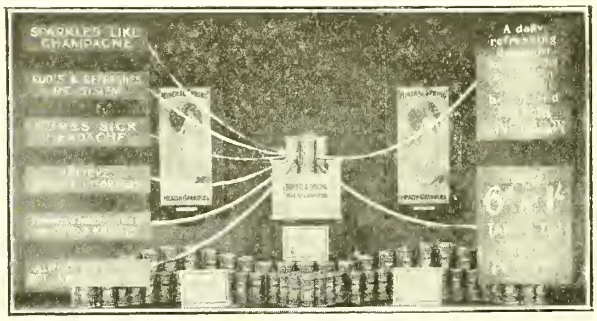
Pebeco Tooth-paste.—We have been struck by the effective advertising of Pebeco Tooth-paste which has been appearing recently in such periodicals as "Punch" and the illustrated papers. In every instance the advertisement contains an engraving of the tube of Pebeco (and a generous-sized one it is), this being an important feature, for there can be little doubt that a picture of an article in an advertisement is impressed upon the mind of the reader, and when that reader sees the article itself on a chemist's counter his mind has already taken the first step towards buying. Messrs. P. Beiersdorf & Co., 7 and 8 Idol Lane, London, E.C., the manufacturers of Pebeco, inform us that they have arranged for a series of these advertisements, and they hope that chemists are noticing, or will soon notice, the results which are to be expected. The firm also inform us that they are bringing out a novel bookmark in some of the magazines which will also advertise the Pebeco. The dentifrice is on the P.A.T.A. list to sell at face value (1*s.* per tube), and the price to chemists is 8*s.* per dozen.

The "Britonian" Hair-brush.—Messrs. S. D. Page & Sons, Ltd., brush-manufacturers, Norwich, recognising the importance now attached by all hair specialists to the quality of the hair-brushes used by their clients, in so far as it is essential that hair-brushes should easily be rendered aseptic, have produced, under the name "Britonian," a perfectly sanitary brush, which is manufactured from the finest selected bristles. These are securely knotted, and each knot is attached separately to the back of the brush by Messrs. Page's patent process. The back is one solid piece of wood, which also is of high quality and practically indestructible. It will thus be observed that frequent washing of the brush is possible, because there is nothing to get out of order, and the makers ensure by the best materials and workmanship that there is nothing to destroy. They manufacture the brushes in a wide range of shapes and sizes and of different kinds of wood, so that the retailer is able to obtain a fine selection to suit all customers. A useful little folder, entitled "Hints on Hair-brushes and Hair-brushing," is inserted in the box containing each brush. The firm will furnish any of our subscribers with an illustrated catalogue on application to the above address.

The Lucagne Cable Code.—We have inspected a clever cabling code the cyphers of which can be simultaneously read in French, English, Portuguese, Spanish, German, and Esperanto. It is introduced into this country by the Lugagne Telegraph Code Co., Bedford Chambers, Covent Garden, London, W.C., of which Mr. Richard Maurice, a pharmacist, is director. The code is a handsome book bound in leather and provided with thumb-nail indices for the various parts—*e.g.*, French, English, Portuguese, and so on, other sections being devoted to private code, system of checking tables, and separate sections for each language used. The cypher in each case consists of three letters—*e.g.*, *ruy* is for potash and *tei* for quinine. It is thus possible to combine in the ten-letter maximum three words

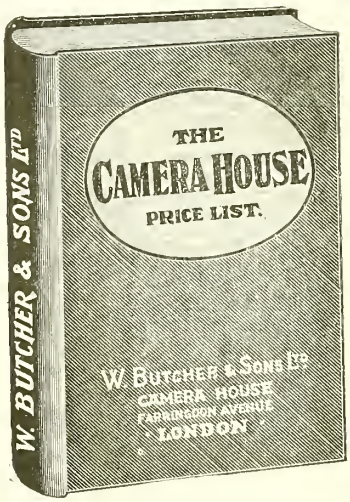
or phrases, with a reference letter as the final one which is an index to the checking table whereby, if the receiver of a cable doubts its accuracy, he may, by turning up this table, ascertain which letter is wrong, this being done by a system of numbers. The company inform us that the use of the code saves from 40 to 70 per cent. of the cost of cables, even compared with ordinary standard codes. It can be used for private cables, and the company are prepared to compile such codes for special businesses or individual firms. Terms may be obtained from them on application.

A Window-display of their Mineral Spring Granules has been arranged by Messrs. Thomas Kerfoot & Co., Bardsley Vale Mills, Bardsley, Lancashire, which is attractive and catching. From the illustration it will be observed that several effective showcards describing the properties of the granules are ribboned up to the mineral



granules canisters. Messrs. Kerfoot supply retailers with all these showcards besides the effective illustrated cards and any other materials required for the display, which is likely to be a popular one during the summer season. Further particulars in regard to it may be obtained from the firm on application.

Camera House Price-list.—Messrs. W. Butcher & Sons, Ltd., Camera House, Farringdon Avenue, London, E.C., have published this week the 1914 price-list of photographic goods. It is a thick volume of nearly 1,500 pages, and is provided with an index cut in the edges, so that the various sections can be referred to quickly. The use of various coloured papers, which was the practice of this house in the days when the list was of much smaller dimensions, is continued in the present mammoth edition. Throughout the list there are finely executed illustrations not only of the various cameras and other photographic apparatus, but reproductions of photographs and coloured engravings used for their pictorial effect. It is the finest list of the kind issued by a photographic house. Photographic chemists should see that they receive a copy of this list.



Cyprus Origanum Oil.—The "Cyprus Journal" (1913, No. 31, p. 717) mentions that experiments on the cultivation of the Cyprus origanum plant are now being conducted by the Agricultural Department. A brief statement is given as to methods of cultivation. It is estimated that, after the first year, a yield of about 40 to 60 okes (1 oke=2.8 lb.) would be produced annually per Cyprus scala (1,600 sq. yds.).

WESTMINSTER WISDOM.

The Week in Parliament.

Sale of Intoxicating Liquors on Sunday.

Mr. Ferens' Bill dealing with this matter would, if enacted, prevent shops licensed for the sale of intoxicating liquors being open on Sunday except for three hours between 12 noon and 10 p.m.; or, if in the Metropolis, four hours between 12 noon and 11 p.m.

The Insurance Act.

Mr. Wedgwood Benn, M.P., informed Mr. MacCallum Scott, M.P., in the House of Commons on Tuesday, that there is no intention of appointing a Committee or Commission to report on the working of the National Insurance Acts and to make suggestions for amendment. The Departmental Committee on Sickness Benefit Claims is now sitting.

More about Feathers.

Mr. Glyn-Jones, M.P., continues to take a lively interest in the debates on the Plumage Bill in Standing Committee, and on Tuesday moved that a defendant in any prosecution under the Act should be discharged if he proved that the plumage in his possession was obtained with a written warranty that it was not prohibited.—Mr. Hobhouse approved the amendment, which was defeated by 19 votes to 8, as were others proposed by Mr. Glyn-Jones.

Petrol-tax and Benzol.

In the House of Commons on Tuesday Mr. Vincent Kennedy, M.P., asked the Chancellor of the Exchequer whether the petrol-tax applies to the motor-spirit known as benzol, and what quantity of benzol is used in the United Kingdom annually, and its average price per gal. as compared with first-class petrol. Mr. Lloyd George replied that no duty is at present levied on the spirit referred to, which is largely and chiefly used for industrial purposes. The question of its taxation, if and when it comes to be ordinarily and generally used for supplying motor-power to vehicles, will not be lost sight of. He had no information on the other points raised in the question.

Great Britain and the Panama Exhibition.

The Prime Minister has promised that the Cabinet shall reconsider its decision not to participate officially in the Exhibition at San Francisco, in response to a memorial signed by 366 members of the House of Commons. To a deputation on Tuesday Mr. Asquith stated, in reply, that it was the greatest mistake to suppose that the Government, in declining hitherto to participate, intended any slight or snub towards the United States. These repeated exhibitions, however, imposed a very great strain upon British traders, and, after exhaustive inquiries, there had not been expressed to the Board of Trade or to the Government anything in the nature of a general or widespread desire to take part in the Exhibition.

Extracts from the Budget Speech.

Mr. Lloyd George, rising at a quarter before four o'clock in Committee of the House of Commons on Monday, May 4, made his financial statement. We give excerpts from his speech of passages which are most pertinent to our readers:

Public Health.

There is no more important branch of the public service than that which deals with the prevention and cure of disease, the promotion of national fitness, and the well-being of the population. . . . The national contribution towards public health, this all-important service, is something like 200,000*l.* a year. . . . The Insurance Act has done more than any number of Commissions to locate, to define, and to classify the problems of public health. I will not say it has revealed, but it has given prominence to, one very striking fact—that an immense number of men and women, through that lack of vitality and stamina which comes from unhealthy conditions and surroundings, live lives that are a prolonged struggle against debility and disease. There is no more fertile propagator of the seeds of inefficiency and disease, of squalor and misery. How is the State affected? The State is vitally interested in the problem. There is no waste of national resources which is comparable to this

e of things. Preventible disease is the costliest all extravagances. Much of it is due to low wages; and women are not equipped with the necessary means nurture themselves and their families and to provide ent accommodation. Much may be due to their own lts and weaknesses. But there is a great margin which lue to other causes with which I am dealing to-day. ses which are entrusted to the supervision, care, and trol of the local authorities. Take the unhealthy and rcrowded dwellings, which are such a prolific source of dressed vitality. Take the absence of sufficient provision the cure of disease in its initial stages. Take the absence any systematic instruction in the principles of health; lack of supervision and nurture in the upbringing of dren. I have already dwelt upon the great difficulty in rd to the slums. . . . We propose that in future local horities shall be pressed to show greater activity and erprise in grappling with all these evils that are sapping national health and happiness.

Insurance and Local Government.

ow, there are certain services which require such immediate action and stimulus that we propose specific and rate grants; they are in the region of co-operation ween insurance and local government. The first is the paign against tuberculosis. The Committee will possibly ember that, while the Bill was passing through the use of Commons, a provision was inserted extending the rculosis arrangements to the dependants of insured sons. It was contemplated that the local authorities ld bear half the deficiency and that the Government ld provide the other half. A good many local authorities have undertaken the work, and there is a very considerable sum this year in the Estimates for the Government's half of that expenditure. Now that the Public Health Grants have been made and substantial grants on condition of efficient discharge of the duties of the lities in respect of public health, more money will be uired. Where the local authorities are not ready to up the work the grant will be made to the Insurance mittees, so that the dependants of insured persons shall suffer from any slackness of any local authority. There be considerable grants for that purpose. There is ther branch of the service which is also in that region ween insurance and local government.

he Insurance Act has helped to make it clear that any em of doctoring is hopelessly inefficient which is not plemented by a good system of nursing. There are ntary associations throughout the country doing able work, but they are inadequately financed. The l authorities of some districts are also doing their best. propose to provide a substantial annual sum to help to vide and train an adequate supply of nurses. And e is another deficiency in our health service which has n exposed by the operations of the Insurance Act. There o provision for the scientific diagnosis of disease. In many, in almost every town, and I think in France, have got pathological laboratories, which are of enorus assistance to doctors in ascertaining the real character disease when they are in any doubt upon the subject. re are a few boroughs in the United Kingdom where ething has been done, even in London, but we propose make a grant for the purpose of aiding the local horities to set up laboratories throughout the United gdom. The total of these services for the United gdom will be 750,000*l.*—that includes the nurses—the e services I mentioned.

Excessive Sickness.

xperience of the work of the Insurance Act shows the ction in which financial support is needed—I made eral statements on the point earlier in the year—and hows that, in spite of the abnormal work of the first r, the resources provided fully justified the actuarial mate. I further stated that under no conditions would subsidies be given to make up deficiencies due to mismagement and malingering, but that there were cases re well-managed societies attracted an unusual proption of bad lives, or were limited to classes subject to cial sickness and disability; and, above all, the working he Act revealed an appalling amount of sickness among ried women, especially under certain conditions—a fact ch was quite unknown before the Act. I promised that, deficiencies in these cases were due not to malingering not to mismanagement, but to circumstances of a kind r which no society had any control, and which demand assistance of the Government and the support of the te, it would be the business of the Government to remend to the House of Commons some means of dealing h them. That we propose to do. I do not think it ld be desirable at this stage to go into the details. The whole of the burden will not fall upon the State. The societies also must come to the rescue, and I do not think it would be desirable for me to give the general character of the proposals. I think it will be desirable before being finally settled that there should be further consultation with the societies concerned, and, in fact, with the whole of the societies. It is perfectly clear that the Government will have to make a substantial grant in aid of these very abnormal and distressing cases as far as some of them are concerned . . . We propose to establish a system of medical referees, who will not merely be a check upon malingering, who will not merely be a class of doctor whom doctors can call in to decide doubtful cases of illness, but they will also be consultants; there will be expert medical men who can be called in for an opinion, not only in cases of malingering, but where there is a serious case of illness, and the ordinary medical man on the panel is not quite sure and wants to get a second opinion. It is proposed to establish clinics in convenient centres to assist the panel doctors to co-operate in difficult cases. We propose to assist in the organisation of a system of health lectures such as you have got in Germany, which has done a vast amount of good in spreading the principles of health among the insured population. The total of that will be 1,250,000*l.* for Insurance. That is over the whole of the United Kingdom

Income-tax.

I propose that the income-tax should be raised. I do not propose to interfere with earned incomes up to 1,000*l.*

Between 1,000*l.* and 1,500*l.*, I propose that it should be 10½*d.*

Between 1,500*l.* and 2,000*l.*, I propose that it should be 1*s.*

Between 2,000*l.* and 2,500*l.*, I propose that it should be 1*s.* 2*d.*

Between 2,500*l.* and 3,000*l.*, I propose that it should be 1*s.* 4*d.*

That is on all earned incomes.

The speech was concluded shortly after six o'clock with the following motion, which was agreed to:

"That (*a*) income-tax shall be charged for the year beginning the sixth day of April, nineteen hundred and fourteen, at the rate of one shilling and fourpence in the pound; and

(*b*) The like provision shall have effect with respect to the income-tax so charged and the annual value of property has had effect under Section two of the Finance Act, 1913, with respect to the income-tax charged for the year beginning the sixth day of April, nineteen hundred and thirteen, and the value of property during that year; and

(*c*) It is declared that it is expedient in the public interest that this Resolution shall have statutory effect under the provisions of the Provisional Collection of Taxes Act, 1903."

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

Mysore Ganja Duty.—In exercise of the powers conferred by the Mysore Excise Regulation (V. of 1901), the Government of his Highness the Maharaja of Mysore have raised the duty on ganja from Rs. 7-8-0 to Rs. 10 per seer of 80 tolas with effect from July 1, 1914.

Personal.—Mr. H. F. MacMillan, curator of the Botanical Gardens, Peradeniya, Ceylon, while at work in his office had a narrow escape from death by lightning recently. Both he and Dr. R. Olsson Seffer, a visitor in the room at the time, received a severe shock and were thrown down, but subsequently recovered, fortunately without any ill effects.

Chinese Officials and Opium.—The "North China Daily News" gives particulars of how the opium campaign is being turned to advantage by unscrupulous officials. Although in the Ningpo district opium-cultivation has stopped for some time, spies are continually about, and for the discovery of but a few chance plants the most oppressive fines are inflicted, one rich man being recently mulcted in $4,600. Some farmers in the Ningpo district set a watch and found that the poppy-plant was being sown maliciously by men employed by the magistrate, who is now trying to come to terms with the farmers.

Colloidal Sulphur in tablespoonful doses is strongly recommended by Maillard and Professor A. Robin, of Paris, for the treatment of chronic rheumatism.

Society of Chemical Industry.

A MEETING of the London Section was held at Burlington House, Piccadilly, W., on May 4. Dr. W. R. Hodgkinson was in the chair, and called attention to lectures on the "Chemistry of Plants" and "Catalytic Action" which are being held in connection with the University of London. The latter series is by M. Sabatier, and will be delivered in French. Mr. J. H. Coste, the Hon. Secretary, who has recovered from his recent breakdown, was in his place, and read the minutes of the previous meeting. Then followed a description and demonstration by the Hon. R. C. Parsons of an ingenious apparatus he has devised for *Automatically Measuring and Injecting Chemical Solutions*. It was invented in connection with the water-supply of some South American cities, where it is necessary to add definite quantities of milk of lime or alum solution, the amount varying according to the pressure and cloudiness of the water. The apparatus is a perfected form of the instrument called the "tiltometer," which the lecturer devised some four years ago for use in the dyeing industry.

The Chairman then read a paper by Dr. Oscar Nagel on *Jets for Mixing*, in which it was suggested that advantage might be taken of the whirling action of jets for mixing gases and liquids. It was especially suggested for use in the chamber process for sulphuric acid.

The last paper, by Dr. Hodgkinson (Mr. W. F. Reid took the chair at this stage), concerned *A Reaction of Tetranitromethane*. This substance, for the preparation of which Mr. Chattaway has recently devised a simple process, has been found by the author to have a vigorous action on copper, nickel, cadmium, and certain other metals when the metals are immersed in an alcoholic ammoniacal solution of tetramethane. The reaction was exhibited to the meeting, and the dried salts, which are nitro-amines, were placed on asbestos-board and fired with a match. The salts burnt vigorously with brilliant smokeless flames, the copper salt giving a bright green flame. The new salts evoked a good deal of interest, and several questions were asked. One point brought out is that the selective action of tetranitromethane is very sharply defined with the various metals—*e.g.*, in an alloy of zinc and iron the zinc is attacked readily, leaving a network of iron. This suggests a new use for the process in etching.

Nottingham Section.

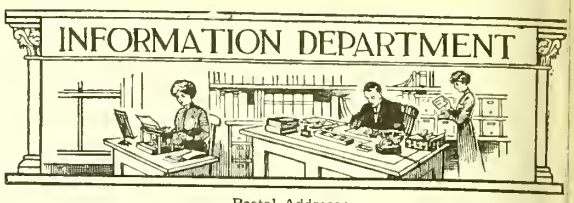
At the last meeting of the session, held at University College, Nottingham, on April 29, Mr. R. Faraday Innes, chemist at the British Chrome Tanning Co., Ltd., Northampton, read two papers, both relating to

LEATHER CHEMISTRY,

now attracting so much attention from experts. The first one was on "Some Practical Observations on the Preparation of Lime-Arsenic Paints," in which the author explained the various methods for the preparation of these paints, and said he had come to the conclusion that the most satisfactory results are obtained when the lime is as fully hydrated as possible, and yet as hot as possible, before the red arsenic is added, the mixture then to be thoroughly stirred. This result confirms previous work, but is somewhat different from the general recommendations contained in text-books upon tanning.

The second paper was a "Note on the Relation between the 'Feel' of Leather and its Appearance under the Microscope," which Mr. Innes illustrated by photographs. He showed the difference between hard and finny leathers and soft and mellow leathers when under the microscope, referring especially to goatskins, which are used for the making of glacé kid. The author pointed out the great assistance which can be given by the microscope to the tanner, who relies almost solely on the sense of touch in judging the skins.

(Advertisement).—ALEXANDER, Emperor of Russia, presented Dr. THORNTON with a ring, an emerald of great value, set round with a double row of diamonds; and this Physician, we are happy to announce, will commence, this evening, at five, his Botanical Lectures in the Medical Theatre of Guy's Hospital, in the Borough.—*The Times*, May 4, 1814.



Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).
Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

210/4. Marjory's "Whoopterine."
212/9. Lafayette's perfumes.
212/900. "Kyx" nail-powder.
212/10. "Boot" brand chemicals.
213/7. Scott M. O. F. food.
213/16. "Voschano Oil" (Russian) — chemically-pure neutral oil.
214/20. "Ruby Balm" (*not* veterinary).
214/42. Taylor's prepared plaster for carbuncles.
213/40. "Kapok": where obtainable in London?
210/48. "Ner Vim," for headache.
210/480. "Pomanel" face-cream.
214/71. "Caiger's Ant-Destroyer Paste."
214/710. Sadgrove's oils.
214/711. "Pedemos" tooth-powder.
214/712. Hilderbrand's violet cachous.
214/713. Bacon's Celery King.
214/714. Cutler's gold enamel.
214/715. "Red Rub."
214/715. Young's antiseptic plasma dressing.
214/716. "Savoll" (Swiss) liquid soap (household).
215/57. Evelyn Beresford's hair-food.
213/62. "Salvin" or "Salvine" hair-dye.
215/63. Mackenzie's liver-salt.
215/630. Howard's pine disinfecting powder.
217/39. "Poulti" plaster.
217/37. Pulv. cannabis Manchôt.
217/38. "Spasmin."
217/380. "Masuisin" (or "Mauisin").
217/381. "Antiberi-berin."
217/41. Celluloid vaccination-shields.
212/24 and 214/73. Fly-paper spreading machines.
217/45. "Lecithine de Dr. Gustav."
217/450. "Bordeaux" brand Castile soap.

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

"Air-Float" tale powder, 211/42
Agmel, 210/3
Aletris cordial, 210/560
Al-Ka-lon, 211/8
Aperol, 214/17
Arthigon, 217/38
Balma soap, 214/710
Bickmore's gall-cure, 212/20
Benzo, 204/33
Bristol's pills, 212/200.
Callard's gluten loaves, 213/63
Clarke's blood-mixture, 212/201
"Colorado" toilet-rolls, 214/44
Cordova tea, 210/481
"Conquest" safety belt (for children), 211/800
Coulsworthy water, 210/2
Curtis abdomenal belt, 212/9
Cuticura, 214/43
Eau de Cologne 4711, 208/29
Florentino cream, 208/47
Freeman's glass lemon, 210/1
Fumigating pastilles, 213/69
Glanduovin, 215/48
Glass bends (for recessed shop rounds), 215/57
Grasshopper ointment, 212/203
Grübler's stains, 214/71
Hanson's corn salve, 213/6
Hepatoxin, 217/380
Herbulene, 212/11
Hewthorn's "Bronkura," 210/48
Hoff's "Uric Acid Expeller" tablets, 201/71
Ice-cream freezers, 213/12
Kerol, 217/40
Kreeloo, 211/31
Label-cabinets, 214/66
Levurine tablets, 216/2
"Loncol" showstands, 208/74
Lucidol, 215/49
Macaura's vibrators, 214/26
Maurice's "Porceleine," 215/50
Puzey's embrocation, 208/47
Quina Laroche, 210/484
Radium-water, 216/34
"Revelation" tooth-powder, 211/4
Roachaline, 212/9
Salvine dentifrice, 213/62
Sanax, 210/483
Sheep-dips, liquid (for export), 212/34
Weighing-machines for adults, 183/2
Wheat-phosphates, 205/41
Wilson's nail-clippers for dogs, 196/368
Wire-stitching machine, 212/24
Wood's smoking-cure, 192/52

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The Pharmaceutical Election is close upon us, and our attitude with respect to it is reflected in the letter of "Ineertus" in your last week's issue. As a body we know little of the candidates or their opinions, and are very much in the dark as to what we wish or expect from them in the way of general policy. As individuals we may have views on this or that point, but we have no large plan of future action and no means of making our views effective. We have, therefore, the government we deserve, a government without a "mandate," that goes very much its own way, knowing that all we can do is to submit and grumble. We must change all this; and conditions for doing so are never likely to be more favourable than they are now, though it is too late to do much this year. I rejoice to see several local associations joining together in support of one candidate (of whom, by the way, I know nothing), but this is not enough. It does, however, suffice to show us the way we must take to get a thoroughly representative government.

Our Local Associations are now fully alive and fairly representative of their respective districts. They have but to ascertain the wish of their members with regard to any course, and by conference one with another all over the country to frame a policy and nominate, not a candidate here and there, but a complete list of candidates pledged to support it, and the Council would at once have a mandate it could not ignore. It would require but two successive elections on this principle to secure the government of the trade by the trade—a real democracy instead of a nominal one. All that is necessary is that we should take an active interest in our own affairs and co-operate heartily with one another. We have the machinery ready to our hands; let us educate ourselves by the use of it. Political wisdom, like everything else, is a matter of growth, and growth is largely a matter of exercise; we should soon develop a corporate sense which we can as yet hardly be said to possess, and, in addition to the political advantage this would give us, every individual pharmacist would be a better man for his share of it. Nothing is so educative as dealing with large affairs.

Advertisement, in the hands of Mr. Barratt, lost its terrors, and very terrible it often was before his time. I speak, it should be explained, from the æsthetic point of view, and I am sure that all who are old enough to remember the streets of London as they used to be in the 'sixties of last century will bear me out. Crude in colour and hideous in design, the "poster" of those days was, almost without exception, an eyesore, while a hoarding was a positive nightmare. Let anyone who thinks I exaggerate refer to the frontispiece to Mr. Sampson's "History of Advertising"—a coloured representation of a railway station in 1874—and compare it with any important station at the present day. Even yet there are advertisements exhibited which are not free from artistic offence, but they are the exception, not the rule. Speaking generally, the change for the better is immense, and though much may be set down to an improvement in taste among all classes, Mr. Barratt's share in bringing about the improvement in this particular line cannot easily be exaggerated. He was a pioneer who compelled others to follow him, and made the artistic atrocities of the past impossible. A copy of the large reproduction of "Bubbles," when first shown in my shop, brought a dozen or two of offers to purchase it at prices that must have been much in excess of its actual cost, and an old Crimean colonel became so angry at my refusal to sell him the statuette "You Dirty Boy!" that I had to ask the proprietors to send me a copy of it for him. I remember no similar experience with any other advertisement. This education of the public taste was not the least of Mr. Barratt's benefits to the community.

Advertising to Get Advertising is novel, but if it be presented in the attractive form in which W. H. Smith & Son's advertisement on p. 20 appeared last week it ought to succeed in its aim. Whether advertising on the tramcars is well-spent money is another question, but at all events it is "a moving force." The "Daily Mirror" advertisement on p. 21 is also a sign of the times. It will not be long before daily newspapers will be compelled, not by advertisers, who soon get to know the values of the media in which they advertise, but by competition, to declare their circulation, and I question very much whether they will gain anything by doing so. The big circulation is not everything. The newspaper that appeals to the advertiser is the paper that is read and kept, not the paper that is bought merely for the pictures and left in hundreds of cases behind in the train.

The Net Profits from Insurance dispensing would, I fear, in ninety-nine cases out of a hundred, appear on the wrong side of the income-tax return. The surveyor who has raised this question is only an exaggerated specimen of a class of men who are really extremely ignorant of business methods, apart from their special opportunities of picking up confidential information, which is always extremely useful, in an underhand way. The idea that Insurance dispensing yields the average panel chemist a net profit assessable to income-tax is worthy of a surveyor! I wonder what "Jay Mack" thinks of it!

The "Medicines Dispensed" article deals mainly with the legal aspect of the matter which you discuss, but there are, as you hint, other than legal reasons why one should hesitate—not, indeed, to dispense prescriptions published in such works as the one to which you refer, but to give advice as to their use. To do that is virtually to prescribe, and it seems to me the worst form of counter-prescribing, since it combines whatever evils are inherent in that practice with those attaching to self-medication. Neither the diagnosis nor the prescription orginates, in such a case, with the pharmacist, and he places himself in an even more ambiguous position than that of the counter-prescriber pure and simple. He is liable to incur blame if the treatment fails or proves hurtful; he does not get the credit if it is satisfactory; and in any case he is insufficiently paid for the responsibility he accepts. It is worse than recommending a "patent" of the composition of which he is ignorant, for his reputation as a pharmacist with a knowledge of the action of drugs is more directly at stake.

The Use of Aq. Dest. in dispensing, except in special cases, is of comparatively recent growth, but it is the logical result of the official requirement that distilled water is to be used whensoever water is ordered in pharmacopœial preparations, though, strangely enough, it was not enjoined at the same time, nor even for pharmacopœial preparations when it was first introduced into the Pharmacopœia in 1788. It appears there as *Aqua Distillata*, the more correct form destillata not being adopted, I believe, in the London book until 1824. The old name in common use for distilled waters in general was *aquæ stillatitiæ*; they first appeared in the Edinburgh book. The number of non-medicated waters recognised in practice until some time after the middle of last century was considerable, including aq. fluviatilis, aq. pluviatilis, aq. fontis (or fontana), and aq. communis, which reminds one of the famous list beginning with new-laid eggs and ending with eggs *sans phrase*. And Rennie notes that distilled water is "seldom used in making up prescriptions, rain or spring water being substituted." He has, however, a warning against pump-water.

SLUGS IN GARDENS

We are now offering to Chemists special Window Display terms for the Spring Trade in

"SANITAS" POWDER.

Chemists who desire to seize the opportunity of acquiring a trade in Gardening Specialties should write for details to

The "SANITAS" Co., Ltd., Limehouse, London, E.

S.V.M. METHYLATED SPIRIT Also RECTIFIED SPIRIT **S.V.R.**

Jas. Burrough Ltd. D.I. Cale Distillery, Hutton Rd., LAMBETH, S.E.

JEWSBURY & BROWN'S CITODA

The Special SODA WATER for Milk Diet and all Medical Purposes.

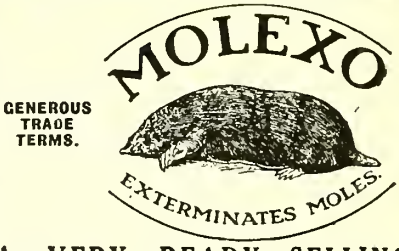
Send for Particulars to ARDWICK GREEN, MANCHESTER.

PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

56 Ludgate Hill, London. REGINALD W. BARKER.

A CERTAIN MOLE EXTERMINATOR.



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A VERY READY SELLING LINE FOR ALL AGRICULTURAL CHEMISTS.

Full particulars and literature from

ARTHUR E. HAWKER 59 Mark Lane, London, E.C.

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HARRISON'S 'RELIABLE' NURSERY POMADE

on Co-operative Advertising basis.

Yields 50% P.A.T.A. Profit on Outlay.

Where unrepresented, we are open to give you twelve months' advertisement in your best local weekly with opening order. New Showcards now ready supplied on application.

Full particulars from

HARRISON, *Chemist,* **Reading.**

Wootton's "Chronicles of Pharmacy."

By arrangement with Messrs. Macmillan & Co., Ltd., we are able to offer this work (published by them at a guinea net) to "C. & D." Subscribers at 7*s.* 6*d.* carriage paid in the United Kingdom, and 8*s.* 6*d.* Abroad. The work is by the late A. C. Wootton (for many years Editor of "The Chemist & Druggist"), and is in two volumes, bound in maroon cloth. The twenty-four chapters deal with every phase of the history of chemical and galenical pharmacy from the earliest times, and include biographies and portraits of many noted men in medicine and pharmacy. The "Chronicles" tell about the origin of the more popular medicines and trace their development to official status. Most fascinating and readable to pharmacists, who are advised to secure a copy by ordering from

"THE CHEMIST & DRUGGIST," 42 CANNON STREET, LONDON, E.C.

FLETCHERS' FOR TINCTURES, INFUSIONS, AND SYRUPS.

CONCENTRATED LIQUORS

Sole Proprietors: FLETCHER, FLETCHER, & CO., Ltd. London and Sydney.

Editorial Articles.

The Budget.

The Chancellor of the Exchequer's twice-deferred annual statement as to the finances of the United Kingdom was made in the House of Commons on Monday afternoon. It was conspicuous among Budget speeches for the absence of details regarding the revenue of last year from Customs and Excise duties. We have been accustomed to get from Chancellors of the Exchequer, irrespective of parties, statistics regarding spirits consumption, tea and other dutiable commodities, even stamped

medicines have furnished items of interest; but Mr. Lloyd George's speech on this occasion was entirely devoted to high finance, and we must await the reports of the Commissioners of Customs and Excise for such details as Chancellors have used as padding. It is high finance with a vengeance. We have been hearing lately how Mr. Gladstone contemplated with horror the possibility of the national expenditure reaching 100,000,000*l.* a year; now we have reached 210,000,000*l.*, and take it as a matter of course. We have searched Mr. Lloyd George's speech in vain for particulars as to the figures for 1913-14, and except that Customs and Excise yielded 74,464,000*l.* there is nothing to go upon. The Treasury statement issued last month gives, of course, all that is necessary. Here, however, are the estimates for 1914-15, including the new revenue and new expenditure, as admirably summed up by the "Westminster Gazette":

Estimated Expenditure		£205,985,000
(Increase on last year, £8,492,000)		
New Expenditure:		
Insurance	£1,000,000	
Education	586,000	
Health services and local taxation grants	2,432,000	
Local valuation	80,000	
Collection of new taxes	45,000	
Concessions to postal servants ...	75,000	
Total	£4,218,000	
Margin in hand	252,000	
		£4,470,000
Total Expenditure		£210,455,000

Estimated Revenue		£200,655,000
(Increase on last year, £2,412,000)		
New Taxation:		
Income-tax	£5,250,000	
Super-tax	2,500,000	
Death duties	650,000	
Settled estate duty	150,000	
Tax on foreign investments	250,000	
Total	£8,800,000	
To be taken from Sinking Fund ...	1,000,000	
		£9,800,000
Total Revenue		£210,455,000

Most of the prophecies regarding the Budget were not fulfilled. As regards new taxation, changes in the income and super taxes were expected, and they have gone further than was anticipated. As expounded by Mr. Lloyd George they have a look of permanency about them; in fact, these taxes have now been taken to such a position that nothing short of a financial revolution can disturb them whatever party may be in power. Together the taxes will yield 56,000,000*l.* this year, or more than a fourth of the national revenue, twenty millions more than the Customs duties, and seventeen millions more than the Excise duties. The increased expenditure (apart from the services) is on social reforms and relief of local taxation. In the latter there is a grant of 22,500*l.* to local authorities in respect of the Shops Act and the Employment of Children Act, so as to secure their more effective enforcement. Chemists may feel this. There is to be 4,000,000*l.* a year more spent on public health, 1,300,000*l.* of it this year. We print elsewhere what Mr. Lloyd George said about that and in respect to Insurance, especially excessive sickness. It will be seen from these excerpts that medical men are to get more positions and a good slice of the money. It was hoped that the Chancellor would have given some indication of recompense to panel chemists who have had their bills for medicines and appliances discounted. Not a word was said about that; in fact, details were deliberately eschewed. We do not blame the Chancellor for that, but we must insist that panel chemists, and they only among those who are working under the National Insurance Act (apart from Friendly Societies), are by these discounts contributing money in combating the excessive sickness, for which a million is now to be paid out of the Exchequer. Although the chemists' losses are only a fraction of that appropriation, they are none the less real, and they will continue wherever the present conditions exist. The same reason that has induced Mr. Lloyd George to consider the position of Friendly Societies in these circumstances applies in a smaller degree, but not less righteous regard, to panel chemists. We need not only ask what the Chancellor is to do about it. What are chemists to do? What will Mr. Glyn-Jones do?

"Working" the U.S.A. Tariff.

Considerable indignation has been aroused in London among commission agents, exporters, and general merchants by the issue of a circular letter from Mr. John L. Griffiths, the American Consul-General, in regard to interpretations placed on the new American tariff by the Treasury Department at Washington. It appears that, owing to the lack of uniformity at different Consulates in the matter of signing invoices, Mr. George H. Murphy, American Consul-General at Large for Eastern Asia, has asked for a ruling from the Treasury on the question as to whether a commission merchant with no property interest in the wares beyond the commission which he charges against the American importer for buying with money advanced for the purpose by the American importer, is regarded by the Department as a principal in the transaction. The Consul-General also wanted to know, if the exporter signs as "agent for the purchaser," whether he is to be recognised as such an agent if he does not file a power of attorney signed by the American importer authorising him to sign declarations for, and in the name of, such American importer. The third and last question on which the Consul required a ruling is, When is the profit or commission of such commission merchant dutiable and when is it not? These three questions the Treasury Department has answered in detail in the form of a circular letter, the principal facts about which are as follows (the italics being ours):

1. That a commission merchant in a foreign country purchasing goods with funds supplied by him or upon an order from an American merchant, and with no other interest in the goods than a commission for his services, is considered as an agent of the purchaser, and not as a principal. *The agent, however, should, in the invoice, state the name of the person from whom, the place where, the time when, and the price paid for the goods purchased by him for his principal*, and if the merchandise is purchased from several sellers and assembled for shipment, the original bills or extracts therefrom should be attached to the certified invoice in accordance with the provisions of paragraph W of Section 3 of the Tariff Act of October 3, 1913. It is important that the name of the manufacturers or other person selling the goods appear in the invoice; that the prices named may be compared with other sales by the same person or firm to other purchasers; that the place where the goods are purchased be stated in order that the appraiser may determine whether or not it is a principal market; and that the time when be stated, so that the prices may be compared with other data to determine whether the prices have or have not advanced between the purchase and importation of the goods.

2. The law provides that the declarations may be verified by the duly authorised agent of the seller or purchaser.

In the opinion of this Department, this authorisation need not necessarily be in the form of a power of attorney. A regularly established and well-known commission merchant, purchasing for an importer in this country, has the requisite knowledge of the transaction to make the declaration, and a written order to make the purchase is, in the opinion of this Department, sufficient evidence of his agency.

3. Commissions are not dutiable items; they are not part of the market value or of the price paid for the merchandise, but compensation for services. Commissions are not among the charges and expenses enumerated in Paragraph R of Section 3 of the present Tariff Act, and are not part of the dutiable value as defined in that section. The difficulty concerning the dutiable or non-dutiable character of commissions comes from the fact that, in some instances, sellers have attempted to divide the prices received for goods into two parts—one designated as the price for the goods, and the other as a commission for services—when the two items constituted the selling-price of the goods and no commission was in fact paid. When there is no agency there can be no commission, but where there is an agent, and a commission is paid for his services, it is not a dutiable charge. If the Consul knows or believes that the actual seller of the goods is representing himself to be the agent, and that the price stated in the invoice is divided and one portion called commission, he should notify the collector of this fact.

The most irritating thing is the italicised part of the first clause. It is asked why should an agent be called upon to state from whom he buys his goods, the place where, the time when, and the price paid? There is no guarantee that such information will be confidentially treated by the Consuls or the Customs authorities at the ports. In fact the particulars are required to be written on the Consular invoice, a copy of which is given to the buyer. It has been pointed out to us by the American Consul that a *bona-fide* commission is not a dutiable charge, and that they wish the amount to be shown separately on the invoice. We have been informed, however, that drug exporters (not acting as commission agents) have been called upon to fill up declarations giving the names of the firms from whom they purchased their goods and the price paid. On a refusal being given, one firm was politely told that the consular invoices would not be signed. It may be recalled that two years ago American Tariff experts spent some months in Europe delving into the cost of production of goods competitive with those of the United States, but they encountered many obstacles, as exporters naturally refused to reveal data likely to throw light on the prices at which they are producing goods entering into competition with those made in the United States. A similar investigation took place in the United States, when, it is said, the vast majority of domestic manufacturing concerns positively refused to open their books, the reason stated being that they are too close competitors with Europe to have their details of cost of production and other data revealed. Precisely the same answer now applies to British exporters, who are asked to place their commercial experience and the source of their purchases at the disposal of buyers in the United States.

Higher Dispensing-fees.

It will be remembered that panel chemists in Scotland agreed last year (*C. & D.*, November 8, 1913, p. 43) to their accounts being discounted for one year if the new and higher scale of dispensing-fees was accepted by the Insurance Commissioners. Since that time the Commissioners have been inquiring into the matter, and this week have issued to all panel doctors in Scotland a circular letter dealing with the subject. This may be regarded as the penultimate step before the Commissioners' decision is conveyed to chemists. The circular states the facts that led up to the inquiry and how the data were collected upon which they base the proposals now put forward. They give as a schedule the list of dispensing-fees put forward by panel chemists last year as follows:

Tariff for 1913-14.	*Proposed Tariff for 1914-15.*
All liquid preparations—	All liquid preparations of any kind or size ... ... 4*d.*
Up to and including 8 oz. 2*d.*	
Over 8 oz. ... ... 3*d.*	
If containing an emulsion, extra ... ... 2*d.*	
Pills, capsules, tablets, etc., on Tariff List, no dispensing-fee.	Whether on List or not—
	1 to 6 ... ... 4*d.*
	7 to 24 ... ... 6*d.*
Outside Tariff List, up to and including 1 doz. ... 3*d.*	Additional 2*d.* for each doz. afterwards.
Each dozen or fraction of a dozen, extra ... ... 1*d.*	
All compound powders on List, no dispensing-fee.	Bulk powders in any size 4*d.*
	1 to 2 single powders ... 2*d.*
	3 to 6 ,, ,, ... 3*d.*
	7 to 12 ,, ,, ... 4*d.*
	Each dozen over 12 ... 3*d.*
Powders, mixed bulk, up to and including 4 oz. 3*d.*	
Powders, mixed bulk, over 4 oz. .. .. 4*d.*	
Powders, mixed or weighed, up to or including 6 ... ... 2*d.*	
Powders, mixed or weighed, 6 to 12 ... 3*d.*	
Powders, mixed or weighed, each doz. or fraction, extra ... ... 1*d.*	
Powders, mixed, in cachets, per doz., extra ... ... 1*d.*	
All ointments pastes, etc., on Tariff List, no dispensing-fee.	Dispensing-fee on all ointments, pastes, and confections ... ... 4*d.*
Other ointments, up to and including 1 oz. ... 3*d.*	
1 oz. to 4 oz. ... ... 4*d.*	
4 oz. to 8 oz. ... ... 6*d.*	
Suppositories on Tariff List, no dispensing-fee.	All suppositories, pessaries, bougies—
Other suppositories, pessaries, bougies—	1 to 6 ... ... 4*d.*
½ doz. or less ... ... 4*d.*	7 to 12 ... ... 6*d.*
½ doz. to 1 doz. ... 6*d.*	Each dozen or fraction additional ... ... 6*d.*
All plasters on Tariff List, no dispensing-fee.	Dispensing-fee for any plaster ... ... 6*d.*
Other plasters ... ... 6*d.*	

To enable the doctors to judge of the effect of these changes the circular states that in 1913-14 doctors in burghs used 1.92 prescription-forms for each insured person and 1.58 in counties; the proposed fees would increase the cost of each prescription by about 1¾*d.*, making the average fee in burghs 3.36*d.* and in counties 2.76*d.* To further enable the doctors to judge how payments to them would be affected the Commissioners from available data group burghs and counties into three classes according to their expenditure on medicines and appliances. In the first class are seven burghs and twenty counties which have not trenched on the floating 6*d.* of the drug fund; in the second class are nine burghs and six counties which so far have found 1*s.* 6*d.* sufficient for drugs but the increased fees would trench upon the floating 6*d.*; and in the third class are nine burghs and five counties which have encroached on the floating 6*d.* Each doctor is told in what group his area is. "A highly trained and expert chemist" is now on behalf of the Commissioners examining prescriptions dispensed during the past year to ascertain in what directions economies may be effected, as the cost of drugs varies so greatly, it being from 3.59*d.* to 25.78*d.* per insured person in burghs, and from 7.51*d.* to 22.13*d.* in counties. There is no evidence that the treatment has been inferior in places where the drugs have cost the minima, nor that there has been excessive sickness where the maxima prevail. In addition to the increased dispensing-fees the circular contains a schedule of prices for drugs which are substantially the altered prices already agreed to for England and Wales—some are higher and some lower. Panel committees are also being consulted about the charges, and the Commissioners state that they will consult practitioners again in regard

to the 1915 Tariff when they receive expected "additional valuable information" bearing on the whole question. The circular is issued at a peculiar time. The dispensing during the first quarter of the year in certain parts of Scotland, as in England, has increased to an unexpected extent, so that very serious discounting of the initial payment is necessary. This is believed to be due to excessive sickness. It may be, therefore, that doctors may feel that the time is inopportune for raising the dispensing-fees, but it has to be considered that these fees are payment to chemists for their time, skill, and knowledge, so that they are in the same category as the doctors' fees, and payment of them should be ensured.

Sanatorium Benefit.

The White Paper issued this week on the administration of Sanatorium Benefit from July 15, 1912, to January 11, 1914, is the first important instalment of information respecting diseases which the National Insurance Act is expected to elucidate. It consists essentially of five tables showing (1) the number of applications for Sanatorium Benefit, and of insured persons and dependants of insured persons receiving Sanatorium Benefit; (2) the number of cases of tuberculosis receiving treatment in various forms; (3) analysis of cases—(*a*) residential, (*b*) dispensary; (4) approximate expenditure of Insurance Committees on Sanatorium Benefit; and (5) arrangements in force on January 11, 1914. One of the first things that strike us is the relative proportions of the incidence of the disease on the sexes; thus, in England 11 women are attacked for every 22 men, in Scotland 11 women to 26 men, in Ireland 16 women to 20 men, and in Wales 6 women to 15 men. Another point is the proportion of pulmonary cases to non-pulmonary. Scotland is conspicuously abnormal in this regard, there being 20 of the latter class to 3,800 pulmonary, the proportion being less than a sixth of the English ratio. Why is this? The number of applications for treatment was 52,065, and of these insured persons 44,195 received treatment.

Kitchenmaids and Dispensers.

It is with all respect to dispensers that we associate them here with kitchenmaids. The necessity arises in connection with the interpretation of the Shops Act, 1912. The King's Bench Division of the High Court decided on Wednesday in Melluish *v.* the London County Council that a kitchenmaid in a restaurant (the kitchen being on the same floor—*i.e.*, the back shop) is a shop-assistant as defined by Section 19 (1), "Employed . . . in connection with the serving of customers." The Magistrate had held that

the kitchen being the place in which goods sold in the shop were prepared for the customers of the shop, the kitchenmaid was a shop-assistant; also that attending to the fires, washing up dishes, and preparing vegetables for customers was work done in the shop in connection with the serving of customers therein.

Consequently he ruled that the kitchenmaid was entitled to a half-holiday. This view Mr. Justice Avory and his brother Judges sustained. The decision is of special interest to chemists who employ any persons that never actually serve customers at the counter, but are engaged in other work, such as compounding, although bottle-washing is more analogous to the kitchenmaid's work.

The British Medical Association.

The annual report of the Council of this Association was published as a supplement to the "British Medical Journal" on May 2. A paragraph in it of direct pharmaceutical interest is as follows:

Various questions have arisen during the course of the year in relation to the Drug Tariff, a subject which up to the present has probably not received from the profession the attention which it deserves. The Council came to the conclusion that the interests of the profession would be best served by considering this matter in conjunction with the Pharmaceutical Society. Accordingly it has been suggested to that Society that in future a conference should be held during the summer of each year between representatives of the Association and of the Society for the purpose of arriving at some agreement with regard to the Drug Tariff for the succeeding Insurance year. It is intended that any such agreement should then be recommended by the respective central bodies to the various local Medical, Panel, and Pharmaceutical Committees throughout the country. The Pharmaceutical Society has not yet replied to the invitation.

The Pharmaceutical Council has decided to meet the Association, and we fervently hope that panel chemists will not lose by this conjunction; they have little if anything to gain by it. In connection with the Pharmacopœia revision the B.M.A. Council reports that a list of drugs contained in the 1898 edition has been carefully examined, and those which, in the Sub-Committee's opinion, have become obsolete, have been deleted. A list of new drugs and preparations which are considered to be of value has been compiled. These two lists have now been classified, and where it seems to be necessary a short explanatory note as to the therapeutic value or mode of preparation of various drugs will be appended. It is proposed to publish a report on the whole subject.

Rules for Dispensing.

Mr. E. Saville Peck, M.A., of Cambridge, one of the Vice-Presidents of the British Pharmaceutical Conference, has, in connection with the discussion which he has promised to open at the Chester meeting, prepared a series of questions for consideration by chemists' local Associations. The object is to obtain and collate opinion upon which a code of rules may be based to ensure uniformity in the methods of dispensing abnormal prescriptions when the prescriber cannot be consulted. The questions are as follows:

A. Interpretation of Prescriptions.

1. What course do you consider should be adopted in the following circumstances when the preparations or quantities are (*a*) illegible, (*b*) ambiguous?
2. What course should be adopted when the dose prescribed is apparently excessive—that is above the pharmacopœial maximum?
3. What do you understand by a percentage solution, such as 10 per cent. boric acid in glycerin?
4. What steps should be taken to make it clear to the next dispenser when any unusual course has been adopted?

B. The Actual Dispensing.

1. What course should be adopted when the substances prescribed are incompatible, forming a product which is (*a*) harmless, (*b*) objectionable, (*c*) dangerous.
2. What course should be adopted when the particular formula of a preparation prescribed is not indicated?
3. When a drug in powder form is prescribed without further specification, should it be dispensed in cachets, capsules, tablets, or as wrapped powders: (*a*) Insoluble powders? (*b*) soluble powders?
4. Can you suggest a general rule to ensure that all pills dispensed from the same prescription are of the same size?
5. When no coating is specified should they be varnished, silvered, or sugar-coated, or sent out merely dusted with powder?
6. In what circumstances is it your custom to add a suspending agent to mixtures containing (*a*) insoluble powders, (*b*) resinous tinctures?
7. When a proprietary article is prescribed and wanted urgently, is it advisable to dispense a similar preparation if the one prescribed is not in stock and not immediately obtainable?

C. Distribution.

1. In the dispensing of proprietary articles, what custom do you consider should be adopted in regard to (*a*) original label, (*b*) original container?

D. General.

1. Can you suggest any case not covered by the above-mentioned questions in which the adoption of a general rule would be an advantage?

These questions, it will be observed, deal with the fundamentals of compounding and dispensing, and a pronouncement upon them by a national pharmaceutical body should be of service. Besides Association opinion we suggest that individual opinion from pharmacists would also be useful, and might be separately considered by Mr. Saville Peck, whose address is Trumpington Street, Cambridge; and we have no doubt that he would welcome answers to the questions, numbered as above—A1, B1, and so on.

Spectrum Analysis and Spectrophotometry.

By S. Judd Lewis, D.Sc., F.I.C., Ph.C.

SPECTRUM analysis, as the expression signifies, has for its first object the analysis of the light itself which is given out by any luminous body, but it has many applications. One of the most fascinating of these is the determination of the composition of the sun and stars by examining the light which they emit, for each metallic and non-metallic element present in their incandescent vapours produces lines of particular wave-length (or colour) in the spectrum, and this can be photographed in a spectrograph, the instrument with which the observation is made. The method is merely an extension of that practised in the laboratory. Any substance can be volatilised at the temperature of the electric arc, and the light emitted by its incandescent vapours examined. All the metals and some of the non-metals can thus be detected with certainty, even when only very small proportions are present in complex mixtures.

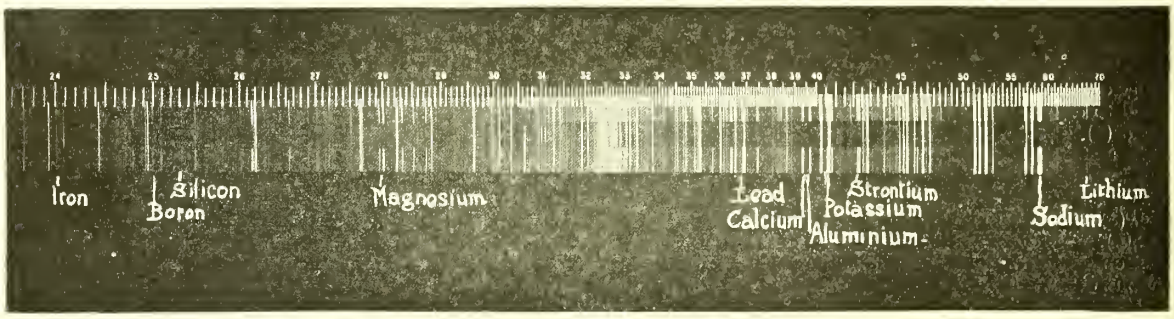


Fig. 1.

The spectrograph differs from the spectroscope just as a camera does from a telescope. One looks through the telescope and beholds the landscape in all its glorious light and colour and perspective, but retains no record of the view save by the memory. On the other hand, observations made by the photographic camera, though they are without interest at the moment, are always available as permanent records of all that was to be seen at the time of exposure, and the record can be examined in every detail at leisure. Similarly one may see the beautiful significant lines of a spectrum through a spectroscope, and then, except for any measurements made, lose all count of the observation. But in a spectrograph a photographic plate is the sensitive "eye" and records faithfully in pictorial form every peculiarity of the spectrum both in quality and quantity, as exhibited in fig. 1. Every line in a spectrum is significant of the presence of some particular element in the incandescent body emitting the light under investigation, whence if all the lines registered on the plate are identified, an elemental analysis of the substance concerned is made.

To achieve so much it is necessary to employ an instrument whose optical parts are all made of quartz, which is capable of transmitting all the ultra-violet rays. The spectra of some of the elements are rich in these rays, but the lines are few and feeble if glass prisms are used, especially under certain conditions. A quartz spectrograph, together with a sector spectrophotometer, is shown in fig. 2. This method has the following important advantages over the usual procedure of chemical analysis:

(*a*) The analysis is complete even when the mixture is very complex. Rare elements are discovered as easily as the more common. This is of the highest value in research work and in the analysis of ores, waters from mineral springs, and the like, which contain elements altogether unsuspected. It recalls the classical work of Bunsen and Kirchhoff and of Crookes, who by means of the spectroscope brought to our knowledge the existence of rubidium, cæsium, thallium, and other hitherto unknown elements in mineral waters and other raw material. For example, the spectrum of an unprepared ore was photographed and proved directly the presence of Al, As, B, Cd, Ca, Co, Fe, Pb, Mg, Mn, Hg, Mo, Ni, P, K, Si, Na, Zn.

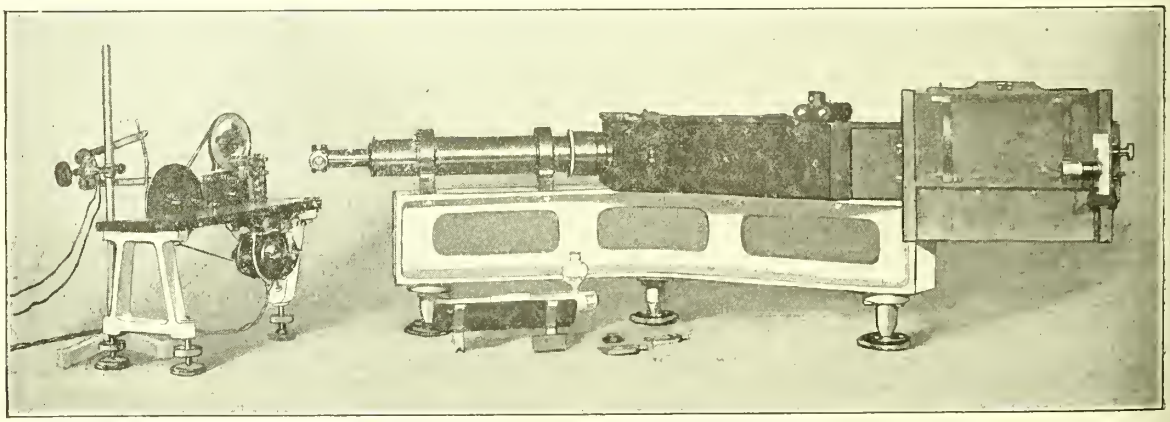


Fig. 2.

(*b*) Elements present in minute proportions only, too small for ready recognition by chemical means, are discovered, and their nature identified with certainty. The properties of an alloy or a water for technical purposes may depend on the presence of the merest traces

of some unusual element. By the direct examination of the residue from such a water the occurrence of the following elements was ascertained (see fig. 1): Li, Na, K, Mg, Ca, Sr, Fe, Al, Pb, Si, B.

(*c*) Very small quantities of material, often as little as one-tenth of a grain, suffice for the analysis. As an instance, barely one grain of the ash of a vegetable drug was available; its composition was revealed by the spectrum to be as follows: Li, Na, K, Mg, Ca, Mn, Fe, Al, P, Si, B.

(*d*) The photograph of the spectrum is a true and permanent record of the experiment, and can be read at any time by persons other than the operator. Moreover, the results are not so subject to "experimental error" and the "personal equation."

Absorption Spectra.

If a solution of any substance, either organic or inorganic, be placed between a source of light and the slit of a spectrograph, spaces will be found in the resulting photograph where spectral lines are lighter or altogether absent, showing that the liquid has absorbed those portions of the light which are of certain wave-length. These absorptions bear a definite relation to the chemical constitution of the substance in solution; and *vice versa*, by taking the absorption spectrum of a substance, one may learn much with regard to its nature.

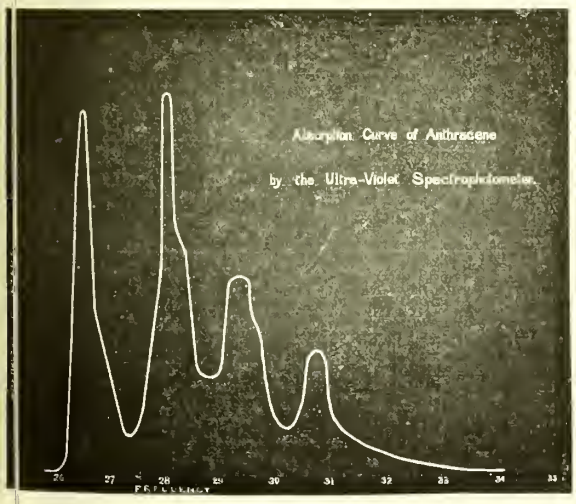


Fig. 4.

Two methods of determining absorption spectra are available:

(*a*) A series of photographs of the spectra of the light which has passed through layers of a liquid of varying thickness or of varying concentration, or through a transparent solid, such as glass, is taken; portions of the spectrum are found to be absorbed, as shown in fig. 3.

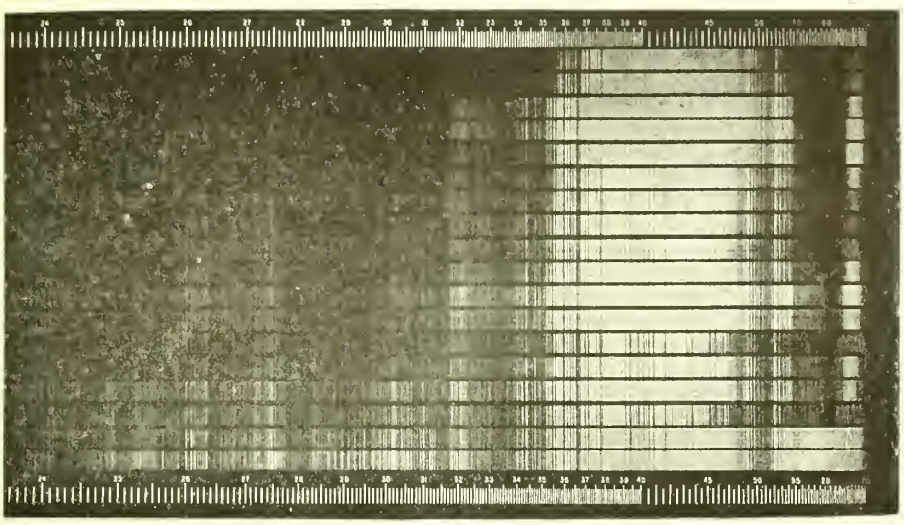


Fig. 3.

This photograph was made by passing the light from a suitable source through layers of varying thickness of a solution of indigo sulphate contained in a "Baly tube" and then into the spectrograph. The tube is shown in the foreground of fig. 2, lying in a carrier. It consists of an inner tube having a transparent quartz end, sliding in an outer tube (surmounted by a reservoir) also having a quartz end. In the figure the thickness of the layer of liquid, which is adjusted by sliding the inner tube to or fro, is represented by the shaded portion of the outer tube. It is seen that no absorption occurs in the blue, violet, and first portion of the ultra-violet (wave-lengths 3,500 to 5,200), but there are marked absorptions in two positions in the ultra-violet (wave-lengths 2,410 to 2,600 and 2,750 to 3,200), and in the red (wave-lengths 5,400 to 6,600). This is the method in general use at the present time, and most of the curves published in the scientific journals have been constructed from such series of photographs.

However valuable the results thus achieved are—and they are one of the most potent means in the hands of the research chemist for determining the constitution of complex organic bodies—this method is experimentally far from perfect. There is sometimes great difficulty in deciding precisely the point where absorption begins, and so the resulting curves are correspondingly inexact.

Nearly all the work on the constitution of organic compounds is done in the invisible ultra-violet region of the spectrum, and, as the rays in this part are absorbed more or less by glass, it is necessary here also to employ only quartz lenses, prisms, etc.; but unfortunately this material is not suited for making polarising and similar photometers for measuring the intensity of light in the various regions of the spectrum. Hence, special means need to be devised.

(*b*) By *Spectrophotometry*.—Although spectrophotometry has been possible in some degree for many years, it is only recently that the ultra-violet portion of the spectrum has become amenable to satisfactory measurements of intensity. This end has now been attained by the invention of a new sector spectrophotometer, which is operative over the whole of the visible and ultra-violet regions of the spectrum. The instrument is shown to the left of fig. 2 (where it is turned out of working position for sake of the view), and consists of two rapidly rotating sectors, one with a fixed aperture, the other with an

adjustable aperture. Two rays of light from the same source are passed, the one through the sector of fixed aperture, and then through the liquid or solid to be examined, the other through the adjustable sector only; and both rays are then made to converge on a bi-prism in front of the slit of the spectrograph, so that there are produced on the photographic plate two spectra close to one another for comparison, derived from the two rays respectively.

The method of application is best explained by example. When the adjustable sector is open exactly as the other, the quantity of light passing through them is equal, and those parts of the spectrum which suffer no absorption will appear the same in both spectra. When the adjustable sector is half-closed, so that only one-half the quantity of light is allowed to pass, those parts of the spectrum of the light which has passed through the liquid which have suffered an absorption of one-half will be recognised by their equality of intensity with the new spectrum, and so for any other proportion. It follows that on taking a sufficient series of photographs, the proportion of the light passing through the liquid may be determined for any part of the spectrum, and therefore the proportion absorbed.

The position and character of the absorption bands are significant of particular substances and chemical groups. Most of the alkaloids, aromatic compounds, dyes, mineral salts, etc., give well-characterised absorption spectra, as has been shown in the case of indigo sulphate (fig. 3). It is, however, more instructive to translate the measurements into a curve, taking the frequencies (reciprocals of the wave-lengths) for abscissæ, and the absorption constants for ordinates, as shown in fig. 4.

ASSOCIATION AFFAIRS.

Carnarvonshire.—Mr. C. F. Adamson presided at the fifth annual meeting of the Carnarvonshire and Anglesey Pharmacists' Association held at the North Western Hotel, Llandudno, on April 29. In his address he referred to the work done by the Association during the past year. Mr. W. A. Roberts reported briefly on the work done by the local Pharmaceutical Committee, and remarked that there were yet a few matters of importance requiring careful looking into, especially the unreasonable delay in paying chemists' accounts. It was unanimously agreed to change the title to the Carnarvonshire Pharmacists' Association. The Secretary was instructed to write to the Anglesey members calling attention to the change, and to impress upon them that this alteration did not exclude them from membership, it being the earnest desire of the meeting that they should continue their membership. The election of officers for service until November 1915 resulted as follows: *President*, Mr. J. E. Owen (Bangor); *Vice-President*, Miss Horniblow (Llandudno); *Treasurer*, Mr. W. A. Roberts (Llandudno) (this post is to be triennial); *Hon. Secretary*, Mr. W. H. Parry (Bangor). Mr. J. Winter (Llandudno) proposed a hearty vote of thanks to the retiring officers, and the President, Treasurer, and Secretary replied. Three guineas was voted to the Parliamentary Fund.

Cheltenham.—Mr. F. T. Palmer presided at a meeting of the Cheltenham, Gloucester and District Pharmacists' Association held at the Plough Hotel, Cheltenham, on April 30. The sum of 3*l.* 3*s.* was voted from the Association to the Parliamentary Representation Fund, and a collection for it was made at the meeting. It was agreed also to ask the divisional officers in the county to make a personal appeal to the men in their districts. It was arranged to hold the annual outing on Tuesday, June 16. It will be a motor-trip to the Wye Valley, and the Committee was requested to make arrangements accordingly. Three new members were elected, and a fourth was nominated.

Ealing.—Mr. E. F. Strickland presided at a meeting of the Ealing and District Pharmacists' Association on Wednesday, April 29. It was resolved to support the Parliamentary Fund of the Pharmaceutical Society, and the Secretary was empowered to collect subscriptions. Mr. G. W. Evans, a director of Ucal, Ltd., attended, and addressed the meeting on *Co-operation in Pharmacy by the Ucal Method*. Mr. J. Hearle and Mr. Payne followed, the President, Messrs. Roberts, Weston, Senior, Flood, and others also discussing the subject.

Hampshire.—Mr. F. E. Bilson presided at a meeting of the Hants County Pharmacists' Association at the South Western Hotel, Southampton, on April 20. Seven guineas was voted to the Pharmaceutical Parliamentary Fund. The Secretary reported on an interview between a deputation from the Pharmaceutical Committee and one from the Panel Committee. In respect to the delay in payment of Insurance accounts, the meeting was in favour of accounts being rendered monthly, instead of quarterly as at present. A resolution was passed, to be forwarded to the Pharmaceutical Committee, expressing dissatisfaction with the decision of the County Insurance Committee on the question of rural areas. Four new members were elected at the meeting, bringing the membership up to seventy-four.

National Association of Opticians.—At a Council meeting held at the Hôtel Métropole, Leeds, on April 29, Mr. R. Chalmers (Sunderland) presiding, over a hundred new members were elected and eighteen hon. members. The Hon. Secretary (Mr. Alf. Hershberg) read letters from opticians in all parts of the country welcoming the inauguration of the Association. Two correspondents raised the question of using the name of the Association in an abbreviated form, or using the initials. The Council decided—as agreed at the meeting in Manchester on March 24—that the name of the Association could only be used in full.

Northamptonshire.—The annual meeting of the County Pharmacists' Association was held at Kettering on April 30, when a satisfactory annual report was submitted and the following officers were elected: *President*, Mr. J. R. Moore; *Secretary*, Mr. J. H. Thursfield; *Executive Committee*, Messrs. Chambers, Dean, Gant, Hitchman, Robinson, and Smith. Mr. W. J. U. Woolcock was present, and gave an address on the Chemists' Assistants Bill, also speaking on other matters of current interest. It was agreed that the members should subscribe 10*s.* each to the Pharmaceutical Parliamentary Fund besides the 5*s.* subscription to the Association.

Nottingham.—The last social meeting of the session of the Nottingham and Notts Pharmaceutical Association was held at the Victoria Station Hotel on May 6. There was a good attendance of members. Mr. G. J. R. Parkes introduced a discussion on *Present-day Apprenticeship*, and strongly upheld the necessity for making the calling more attractive to youth—shorter hours, more time for study and recreation, and less menial work. The subject gave rise to considerable debate; the majority of opinions seemed to point to the need for a united stand by the craft in favour of earlier closing as the only means of bringing about more favourable conditions.

Southampton.—Mr. W. Bates presided on April 20 at the dinner of the local Association in the South Western Hotel, the principal pharmaceutical guests being Mr. F. E. Bilson and Mr. E. T. Neathercoat. They replied to the toast of "The Pharmaceutical Society," and Mr. Bilson also proposed the toast of "The Medical Profession," which was acknowledged by Dr. Farquharson and Dr. Braham. The toast of "The Southampton Pharmacists' Association" was given by Dr. O'Meara, and replied to by Mr. Ferryman (Treasurer) and Mr. Wride (Secretary), who asked the doctors present why they were not using "Aqua Font." instead of Perrier and Polly. "Kindred Associations" was proposed by Mr. William Martin (Vice-President), Mr. Barlow (Southsea), Mr. Baker (Cosham), and Mr. Scampton (Bournemouth) replying. Mr. Chaston (Winchester) proposed "The Insurance Committee of Southampton and the County," to which Mr. H. White, jun. (Clerk to the County Insurance Committee), and Dr. Lauder replied. Mr. Neathercoat proposed "The Chairman," whose health was drunk with musical honours, and Mr. Bates thanked the company for the very hearty reception they had given him, and said he was amply rewarded for any work he had done by the great success of the Association.

"The chemists of Britain are meeting in conference at Chester this summer. We may therefore expect Liquorice to win the Chester Cup to-day." So said an Edinburgh paper on Tuesday.

The Fly Season and its concomitant scares have commenced, and the Press teems with letters on the subject, while the pharmacist looks on with smiles, for it is he who gets some Kudos from them with his effective merchandise.

An International Clinical Congress of Surgeons is to be held in London from July 27 to August 1, Mr. John Murphy, the distinguished American surgeon, being President. The General Secretary of the Congress is Dr. Franklin H. Martin, 1 Wimpole Street, W.

PHARMACEUTICAL SOCIETY
OF GREAT BRITAIN.

Council-meeting.

THE monthly meeting of the Council was held at 16 Bloomsbury Square, London, W.C., on May 6. The number of members elected and restored to the Society was large, and the Treasurer's view of the finances was rosy. The Benevolent Fund Committee recommended grants to applicants for assistance amounting to 73*l.* 10*s.* The Pereira medal was awarded to Mr. E. W. Fair. A Scientific Sub-committee which was appointed at the last meeting has co-opted twenty pharmacists and others as an advisory committee. The Foreign Office wrote in reference to the recommendations of the International Opium Convention, and asked the views of the Council on the question of limiting the retail sale of morphine and cocaine to doctors' prescriptions and also limiting the number of times such a prescription can be repeated. The Assistants to Chemists and Druggists (Qualification) Bill is not in favour with the pharmacists of Scotland, and some regret was expressed that the Bill was not submitted to the Society's solicitor in Scotland before it was introduced into the House of Commons. Mr. Hagon and Mr. T. A. White brought substantial contributions to the Pharmaceutical Parliamentary Fund from the towns of Cardiff and Portsmouth.

THE councillors present were: Mr. E. White (President), Mr. A. S. Campkin (Vice-President), Mr. W. H. Gibson (Treasurer), Mr. C. B. Allen, Mr. F. E. Bilson, Mr. J. H. Cuff, Mr. W. L. Currie, Mr. F. J. Gibson, Mr. R. L. Gifford, Mr. D. Gilmour, Mr. A. Hagon, Mr. J. F. Harrington, Mr. J. Harrison, Mr. E. T. Neathercoat, Mr. L. M. Parry, Mr. F. A. Rogers, Mr. P. F. Rowsell, Mr. F. P. Sargeant, Mr. T. A. White, and Mr. J. R. Young.

Elections and Restorations.

As a mark of sympathy with the President in the bereavement he has sustained the members of Council received him standing. The SECRETARY then read the minutes of the previous meeting, and these were confirmed. The names of ninety-seven persons were submitted for election as members, and these were approved by the Council. As student-associates thirty-four persons were elected. The large number of 549 members were restored to their previous position in the Society, and five names were restored to the Register of Chemists and Druggists.

Finance.

The TREASURER then submitted the report of the Finance Committee. The receipts on the General Fund amounted to 3,152*l.* 12*s.* 11*d.*, made up as follows: Penalties and costs, 138*l.* 15*s.* 1*d.*; subscriptions, 2,639*l.* 3*s.* 6*d.*; "Journal" and publications, 117*l.* 3*s.* 2*d.*; restoration-fees, 2*l.* 2*s.*; registration-fees, 176*l.* 8*s.*; ground-rent, 44*l.* 14*s.* 7*d.*; examination-fees, 10*l.* 10*s.*; school-fees, 10*l.* 10*s.*; sundries, 13*l.* 16*s.* 7*d.*, making, with the sum carried forward from last month, and after deducting the amount of 4,000*l.* placed on deposit with the London County and Westminster Bank, a sum of 2,256*l.* 10*s.* 1*d.* From this the following payments, amounting to 1,974*l.* 8*s.* 11*d.*, were recommended to be made: "Journal" and publications, 205*l.* 11*s.* 2*d.*; stationery, etc., 68*l.* 8*s.* 7*d.*; current expenses, 450*l.*; salaries, etc., 333*l.* 10*s.* 4*d.*; school and examinations, 441*l.* 9*s.* 8*d.*; law charges, 45*l.* 18*s.* 6*d.*; house, 429*l.* 10*s.* 8*d.* The balances on the Benevolent Fund were as follows: Current account, 962*l.* 13*s.* 9*d.*; donation account, 88*l.* 10*s.* 1*d.*; Orphan Fund, 24*l.* 0*s.* 4*d.*

Commenting on the report, the Treasurer said that the subscriptions received during April showed an increase of 159*l.* over the corresponding period of last year, the registration-fees were also 65*l.* "up," and the payments to be made were 630*l.* less, chiefly on account of the "Journal" and publications. The Benevolent Fund subscriptions are also 30*l.* more than the same period last year, and the balance is 90*l.* ahead of the previous year. Among the special contributions which had been received were: Mr. P. C. G. Stiles (weighing-machine fees), 8*s.* 6*d.*; Mr. Jas. Hamerton (collecting-box), 18*s.* 7*d.*; Norwich Pharmaceutical Association, 1*l.* 19*s.*

The report was adopted.

Benevolent Fund.

The report of the Benevolent Fund Committee was next presented by Mr. ROGERS. This recommended grants amounting to 73*l.* 10*s.*, the amount and the number of applicants for assistance being less than usual.

Mr. T. A. WHITE said he wished to convey to the Council an appreciation of the work of the Benevolent Fund. The late Mr. Fenton, of Portsmouth, who died recently, and had been an annuitant, sent his daughter, a few days before he died, to Mr. White to ask him to express his gratitude for what the Council had done for him.

The report was adopted.

Library Committee.

The report of the Library, Museum, School, and House Committee was then taken. This dealt with various details regarding the Society's premises. There is to be no prize distribution in June. The Selborne Society thanked the Council for giving its members the opportunity of visiting the Museum, and the British Archæological Association inquired regarding accommodation on the Society's premises for the Association's meetings. An account for 17*l.* 10*s.* 6*d.* for repairs was approved, and the Secretary was instructed to inquire as to the cost of an electric vacuum cleaner for use in the Society's premises. The remaining part dealt with the preparation of the annual report.

The report was adopted.

Apprentices Registered.

The REGISTRAR reported that he had registered during April eighty-six apprentices or students, compared with fifty in the corresponding period of last year.

Examiners' Report.

The report of the two Boards of Examiners showed that in England and Wales thirty-nine Major candidates were examined and twenty-seven passed, while of 166 Minor candidates eighty passed. In Scotland the only candidate for the Major examination passed, and of sixty-six candidates for the Minor half passed.

The pharmaceutical chemists who passed recently were granted diplomas sealed with the seal of the Society.

It was resolved to ask Mr. H. Finnemore to conduct the examinations in June for the Jacob Bell and Manchester scholarships. It was explained that there is no emolument attached to the examinership.

Honorary and Corresponding Members.

The following were elected honorary members of the Society: Professor L. van Itallie, Professor of Pharmacology, University of Leyden, and Mr. J. E. Purvis, M.A., F.I.C., University Lecturer in Chemistry and Physics, Cambridge.

The following were elected corresponding members: Dr. Andrew Balfour, Director of the Tropical Research Laboratory, Khartoum; Dr. J. R. C. Stephens, Medical Missionary, Nigeria; Professor P. van der Wielen, Professor of Pharmacy, etc., University of Amsterdam.

Parliamentary and General Purposes Committee.

This report was next dealt with; it included also the report of the Association's Executive Committee. The Parliamentary Secretary attended the meeting of the Parliamentary and General Purposes Committee and reported on the position as regards the Assistants to Chemists and Druggists (Qualification) Bill, and also advised the Committee regarding certain matters arising out of the report of the Association's Executive Committee.

Discounting Chemists' Accounts.

The last-mentioned report dealt with the position in Lancashire with regard to the Drug Fund under the

National Insurance Act. The Secretary presented a confidential report on an investigation of the position in Lancashire and after a long discussion the report was received and the recommendations embodied therein recommended for the acceptance of the Council. The Chairman raised the question whether immediate steps might not be advisable to obtain guarantees for the payment, from some source or other, to chemists of the amounts of their discounted bills. In other words, consideration should be given to the question whether some authoritative statement should not be sought which would relieve the immediate financial pressure under which a good many panel chemists are at present working. The committee after most careful consideration, resolved that the Secretary should take immediate steps to secure a complete report of the facts in all the deficiency areas throughout England and Wales as a preliminary necessary to initiating effective national action. The Secretary was further directed to take certain other supplementary steps which seemed requisite. The committee considered the question of the revision of the Drug Tariff, and the Secretary was directed to furnish each member of the committee with a copy of the Tariff, in order that he might make thereon such suggestions as the necessities of his immediate district appeared to warrant. A committee, consisting of the President, the Secretary, and Messrs. Keall, Neathercoat, and Rowsell, was appointed to meet a similar committee of the British Medical Association in connection with the revision of the Drug Tariff and collateral matters.

Council Prizes.

Another matter dealt with in the main report was the award of the Council prizes, the Examiners making the following recommendations :

Pereira Medal—E. W. Fair.
Silver Medal—C. E. Corfield.
Bronze Medal—B. G. W. Hoare.

The President remarked that for the Pereira medal two other candidates attained the qualifying standard, their mottoes being "Arte et Labore" and "Nemo."

The Council by resolution made the awards recommended, and thanked the Examiners for conducting the examination.

A Scientific Committee.

Last month a Scientific Committee was appointed, consisting of the President, Vice-President, Mr. Rogers, and Mr. Rowsell, the purpose being to take in hand the scientific work of the Society. On the recommendation of the Parliamentary and General Purposes Committee, the following were appointed as an Advisory Committee to assist the Committee : Messrs. E. F. Harrison, W. F. Gulliver, C. T. Allen, A. R. Melhuish, T. Tickle, J. C. Umney, R. R. Bennett, F. C. J. Bird, J. W. Peck, F. W. Gamble, H. Finnemore, H. J. Kluge, F. Goldby, C. A. Hill, E. W. Lucas, C. H. Hampshire, H. Deane, Dr. Fritsch, and Professors Jackson and W. E. Dixon. It was foreshadowed that these members would be divided into three sub-committees to deal with the "Codex," evening meetings, scientific abstracts, and research.

School Demonstrators.

The last item in the Parliamentary and General Purposes Committee's report was a recommendation appointing Messrs. J. C. Jinks, C. T. Bishop, and C. E. Corfield as demonstrators in the School of Pharmacy.

The report was adopted.

The North British Branch.

Mr. Currie moved that the annual report of the Executive of the North British Branch be received and adopted. He said the report was exceedingly gratifying, and showed that the interests of the Society in Scotland are being well looked after by the Resident Secretary and Chairman. He added also that the Divisional Secretaries are absolutely necessary for carrying on the work.

Mr. Gilmour referred to the completeness of the organisation in Scotland. There are now two bodies working alongside, the one dealing with the executive work of the Society and the other with Insurance matters—each is doing valuable work in its way.

The President said he had visited Edinburgh twice during the year, once in regard to the Assistants Bill, and again recently he was present at the examinations. He found in regard to the examinations that there is no difference in the candidates, in the methods in which the examinations are conducted, or in the equipment of the examination-rooms from what obtains in London.

Mr. Gilmour added that a visit from the President is always looked forward to with pleasure by the members in Scotland.

A little later, when a copy of the report of the meeting of the Executive on April 22 was received,

Mr. Gilmour drew the attention of the Council to the fact that the Assistants Bill was before the Executive for the first time at that meeting. He would have preferred that it had been considered by the Executive before it was presented to the House of Commons. There are some things in it which cannot apply to Scotland; as, for example, the references to apothecaries' assistants.

The President said he was under the impression that he explained the principles of the Bill when he paid his first visit to Scotland twelve months ago.

Mr. Gilmour said that was not the Bill in question, as the matter had been dropped in the meantime. The Assistants Bill as now before the House of Commons interferes with the present apprenticeship system and oppresses regular pharmacists.

The President pointed out that the two Scotch members on the Council were present when the Bill was before the Council.

Mr. Currie replied that he indicated at the time that the Bill would meet with adverse criticism in Scotland. As he understood that the Bill did not stand much chance of becoming law this Session, there might be an opportunity of going into the matter. There is a strong feeling against it in the North.

The President said that objection should have been made before. The question is also involved of delegating power to the Executive in Scotland.

Mr. Currie : Upon no previous occasion has a Bill been submitted to the House of Commons without placing it before the solicitor in Scotland.

Mr. Young was at a loss to know how the Bill affects differently their friends in the North.

Mr. Gilmour : You should have given the Executive a chance of telling you.

Mr. Young : But we have two Scotch members on the Council.

Mr. Harrison said that as the Bill is not likely to go further in the present Parliament, there would be an opportunity for the Executive to bring up a report for the purpose of enlightening Southerners on the matter.

The President said it is not intended to submit the Bill to the Executive for approval.

The matter then dropped.

The Sale of Narcotics.

The Foreign Office forwarded a copy of the Opium Convention, and invited the Society's views as to the practicability of the proposals recommended therein. The Secretary said that one point upon which opinion was invited was as to the medical and legitimate uses of morphine, cocaine, and heroin, and whether it would be practicable to limit the retail sale to the prescriptions of medical men, and further impose a time-limit on the repetition of prescriptions for narcotics.

The matter was discussed in committee, and is again to come before the Council next month.

Government Visitors' Reports.

Reference was made to the Report of the Government Visitor on the examinations held in London under the Pharmacy Acts during the year ending March. The report followed on the usual lines, and stated that the cause of failure of candidates was in every case due to inability to reach an adequate standard in the practical part of the examination or in subjects which are essential to the practising pharmacist. This is to be forwarded to the Board of Examiners for their observations.

The Board of Examiners for Scotland forwarded a copy of a resolution passed at the last meeting of the Board in reference to the Report of the Government Visitor on the examinations held in Edinburgh. The resolution was to the effect that the Board agreed to the

suggestion for the institution of a compulsory curriculum in practical laboratory work.

Other Matters.

The Secretary of the British Branch of the International Federation for the Abolition of State Regulation of Vice invited the Society to send delegates to the forthcoming conference at Portsmouth. It was at first suggested that Mr. T. A. White might act, but it was afterwards agreed that the subject was not within the purview of the Society.

A resolution was received from the Sheffield Pharmaceutical and Chemical Society regarding the new system of local organisation.

The Cambridge Junior Pharmaceutical Association condemned the Assistants to Chemists and Druggists (Qualification) Bill.

The School of Pharmacy Past Students' Association asked for permission to hold the annual general meeting of the Association in the Society's lecture-theatre on the afternoon of May 20.

The London and Suburban Traders' Association asked to have the Society represented at a forthcoming meeting in regard to proposals for reforming the law dealing with Sunday trading.

The Royal Commission on Public Records intimated that following a visit paid to the Society's premises, where the method of keeping the records was seen, the Society's name has been admitted to the list which is being prepared of archives properly kept.

Pharmaceutical Parliamentary Fund.

Mr. Hagon said that before the Council meeting ended he would like to report that the chemists in Cardiff had delegated him to hand to the Treasurer the sum of 22*l.* 16*s.* for the Pharmaceutical Parliamentary Fund. (Hear, hear.) Mr. T. A. White topped this by stating that he had been asked to bring from the Portsmouth chemists the sum of 32*l.* 1*s.* (Hear, hear.)

A Reminiscence.

Just as the public business concluded, Mr. Allen asked to be allowed to read a letter he had received from Mr. Walter Hills, in which he conveyed his kind wishes to the members of the Council. He mentioned also that he had met Mr. Charles Umney in Rome, and that he (Mr. Hills) is in better health.

This concluded the public business.

Annual Report.

The Council then went into committee to consider the seventy-third annual report, which was approved, as follows :

In presenting the seventy-third annual report and financial statement the Council has to record a year of strenuous labour on behalf of the pharmacists of Great Britain. The year under consideration will always be noteworthy as being the first year in which Medical Benefit was furnished to insured persons under the National Health Insurance Act, 1911. In every department of the Society's work the influence of this Act has been felt, and numerous changes have had to be made in the organisation of the Society both at headquarters and in the provinces to cope with the extra work which was entailed. Considerable progress has been made in all departments. Whereas on January 1, 1913, the membership of the Society totalled 7,522 registered chemists, and was in itself an increase of 151 on the total of the previous year, on January 1, 1914, the number of members connected with the Society was 7,788, an increase of 266 on the previous year. Since this date 302 chemists and druggists have been elected members, which brings the total up to over 8,000 members. In addition to the increase in membership a further most satisfactory feature has to be recorded, in that for the first time for very many years there is an increase in the number of student associates. On January 1, 1913, there were 436 student associates of the Society. During the year this number has been increased by 48, making a total of 484 on this register on January 1, 1914, and since that date 200 have been elected or restored.

During the past year a change has been made in the Society's officers, which was necessitated by the resignation of the Secretary and Registrar, Mr. Richard Bremridge, who resigned this position in June last. The Council desires to place on record its appreciation of the services rendered by Mr. Bremridge during the time he filled these offices, and for his work for the Society for nearly fifty years. In appointing the Local Associations officer, Mr. W. J. Uglow Woolcock as Secretary and Registrar to succeed Mr. Bremridge, the Council believe they have taken a step that will meet with the fullest approval of the members of the Society. Other changes have been made in the titles of two of the Council's officers, in that Mr. Harry Moon has been appointed Deputy Registrar, and the title of Mr. J. Rutherford Hill has been changed from that of Assistant Secretary in Scotland to that of Resident Secretary in Scotland, in agreement with the wishes of the members of the Society in Scotland.

Organisation.—The work of consolidating the local organisation of pharmacists has proceeded apace during the year. The programme of district meetings arranged to be held during the winter session has been carried out, and in addition to this a large number of visits to Local Associations has been made by many members of Council and by the Secretary of the Society. In nearly every part of the country local organisation has been raised to a high pitch of efficiency, and the highest praise may be given to the officers of the several Associations for the magnificent work which they have carried out during the year. Without their loyal support it would have been impossible for the Council to have accomplished half as much as has had to be done. The increased interest which has been taken in the work of the Society, coupled with a growing disposition on the part of pharmacists to give their time and services in various public capacities, is one of the most helpful features in the progress of pharmacy, and augurs well for the future. About sixty new Associations have been formed during the year, and every part of England and Wales is now covered by a Local Association. In Scotland, notwithstanding the extreme difficulties which have been met with, the Executive has, through the agency of the Resident Secretary, Mr. J. Rutherford Hill, and his staff, carried out the systematic organisation which is essential to the conditions prevalent in Scotland.

A very important change has been made in the system of organisation of the Society. The establishment of Pharmaceutical Committees as integral portions of the machinery for administering Medical Benefit under the Insurance Act rendered it necessary that the Society's organisation should include those Committees within its scope, as otherwise it would be difficult to secure uniformity of practice, and might militate against the proper distribution of official information and guidance. The Council, therefore, deemed it necessary to convene a meeting of representatives of the Pharmaceutical Associations of England and Wales for the purpose of considering what changes were desirable in the Society's system. That conference met on January 21, and was attended by representatives from every Local Association covering an Insurance area. The delegates might therefore be considered as being territorially chosen to discuss the important question of organisation. As a result of their deliberations it was resolved to establish the conference of delegates as a permanent feature in the Society's scheme. As a consequence of the recommendations of this conference, the Council decided in March that the Local Associations Committee should be merged in the Executive Committee above mentioned, and that the Executive Committee should meet monthly and report to the General Purposes Committee of the Council. The Standing Committee on Insurance has also agreed to transfer its functions to the same body. In accordance with a resolution passed at the above mentioned conference and confirmed by the Executive Committee, the Council agreed that in future the Secretaries of Local Associations coterminous with Insurance areas should be recognised as the Society's representatives for their particular localities, and that the Divisional Secretaries contemplated by the Scheme of Organisation adopted in 1900 should not again be appointed. The object of the change in practice is to simplify and expedite the conveyance of guidance from headquarters to the various Associations, a process which is much easier and likely to be much more effective when there are 150 officers who are the recognised executive officers of the various localities than when the headquarters staff has to deal with 450 local officers, the vast majority of whom do not hold executive office in the Local Association. The full details of the changes alluded to have been published in the official "Journal," and from time to time explanations have been given in the "Journal" together with the reasons for making the change.

Parliamentary.—The year under review has seen the passing of the first amending Act to the National Insurance Act, 1911, and the opportunity was taken by the Council through the services of its Parliamentary Secretary, Mr. W. S. Glyn-Jones, M.P., of including in this amending Act the provision for the statutory recognition of Local

Pharmaceutical Committees and provision for payment of their administrative expenses. At this date the passing of the amending Act is too recent to accurately estimate what may be the value to pharmacy of Section 33, but it is not too much to say that granted the loyal co-operation of pharmacists in the efficient working of these Committees the gain in the efficiency of the Pharmaceutical Service under the Insurance Act and the safeguarding of the interests of pharmacists may be enormous.

Pursuant to the pledge given on behalf of the Society in the House of Commons, through the Parliamentary Secretary, Mr. W. S. Glyn-Jones, M.P., the Council has caused to be introduced to the House of Commons a Bill, entitled "The Assistants to Chemists and Druggists (Qualification) Bill," the main features of which are to provide for the registration of persons who desire to act as assistants to pharmacists in the compounding of medicines. The Bill was brought in by Mr. W. S. Glyn-Jones, M.P., and is supported by Mr. Percy Alden, M.P., Mr. J. F. Remnant, M.P., and Mr. A. F. Bird, M.P. Its second reading was fixed for April 3, but the Rules of the House did not permit of it being taken on that date, although Mr. Glyn-Jones was able to mention it in the time available for private members' Bills. The second reading is now being put down on every possible occasion, and it is hoped that some opportunity may be found for securing a discussion in the House on the subject-matter of the Bill.

Having regard to the experience of the Council during the past two or three years of the extreme value of direct representation of pharmacy in the House of Commons it has been felt that an effort should be made to ensure that such representation should be as far as possible permanent. The Council, therefore, undertook to make an appeal to the pharmacists of the country to aid in the establishment of a Pharmaceutical Parliamentary Fund which should be of a non-party character, and should be utilised for the purpose of maintaining the present representation of pharmacy in the House of Commons, and if possible of increasing it. The fund has been established and fair support has been accorded to it, although a very much greater effort on the part of pharmacists will be necessary before the objects for which the fund was established can be accomplished. The fund is to be administered by a committee consisting of the President, Vice-President, and Messrs. Allen, Rowsell, Sargeant, and Young, together with two representatives, who will be nominated by the subscribers themselves.

Legal.—The Registrar's report for the year 1913 shows that 1,619 cases of alleged infringement were investigated during the year, and in 306 cases proceedings were instituted, with the result that the Society did not lose a single case during the period under consideration. The number of cases investigated is, roughly, 25 per cent. more than in the previous year, and a rather larger proportion may be noted among cases in which proceedings were instituted. During the past year the first registration under the Reciprocity Clause of the 1908 Act has taken place. The inspection of shops with a view to ascertaining whether a certificate was exhibited in order to comply with Subsection 1 of Section 3 of the Poisons and Pharmacy Act, 1908, has been systematically carried out during the year, and the Council is able to report that under this Subsection of the Act infringements are now very few.

Benevolent Fund.—The total relief granted during the year 1913 has been almost exactly the same as the amount granted in the previous year, but the amount received in subscriptions has unfortunately been some 70*l.* less. It is hoped, however, that this falling off in subscriptions will be more than made up during the present year. An alteration has been made in the regulations which govern the administration of the fund, and was approved by the Council in March last, by which the scale of pensions has been altered to 20*l.* per annum, 30*l.* per annum, 40*l.* per annum, and 50*l.* per annum, according to the discretion and on the recommendation of the Benevolent Fund Committee and subject to the approval of the Council. The wide catholicity with which the fund is administered has always appealed to pharmacists throughout the country, and it is hoped that by the institution of the new scale of pensions that an increased amount of good might be done by the grants and that a larger number of pharmacists will be prepared to support the fund which is so valuable in relieving the wants of the more necessitous of the calling.

Education.—During the year a change has been made in the regulations governing the registration of apprentices and students. Prior to this alteration persons desiring registration as apprentices or students had to produce a certificate from one of the recognised examining bodies of having passed the examination in English, Latin, a modern foreign language, arithmetic, algebra, and geometry. It was found that owing to the decrease in the number of secondary schools in which Latin was taught a large number of eligible persons who not having contemplated entering pharmacy while at school had not taken Latin, and many persons who would form valuable recruits to the ranks of pharmacy went into other callings.

The Council therefore decided that while every student should be advised to take Latin in the Preliminary examination the compulsory subjects should be English, arithmetic, algebra, and geometry, and that the Council would accept any two optional subjects in which an examination was conducted by one of the recognised examining bodies. The effect of this decision by the Council was almost immediately a large increase in the number of persons applying for registration, and, hence, during the year 1913 580 apprentices or students were registered, as against 447 in the previous year, showing an increase of 133. Since January 307 have been added to the list. A knowledge of Latin will still be required in the Minor examination so far as it relates to the translation and interpretation of prescriptions. The important thing is that students should be registered before commencing their professional pupilage, and the new regulations will conduce to that end.

School.—The good work accomplished by the School of Pharmacy in the past has been continued, the school having been again quite full. The demand for instruction in the advanced class taxes the available accommodation to its utmost capacity, and is an encouraging indication of the desire of pharmaceutical students to avail themselves to the full of the educational advantages offered by the Society. Mr. W. R. Pratt has succeeded Mr. C. H. Hampshire as assistant lecturer in physics, Mr. Hampshire having left to take up the position of pharmacist at University College Hospital. Considerable progress has been made during the year in the direction of securing recognition from the Board of Education for the important technical instruction carried on in the School of Pharmacy. The school course has now been placed in the category of technical day classes entitled to grants under the Education Acts. As an indirect tribute to the educational work of the Society, it is interesting to note the following paragraph in the report of the Royal Commission on University Teaching in London. "The School of Pharmacy of the Pharmaceutical Society is probably the most efficient school for the training of pharmacists in the country."

Examinations.—During the past year 882 candidates presented themselves for the Minor examination, an increase of eight on the previous year's entries. This is the first time for many years that it has been possible to report an increase in the number of entries, and is an additional sign that the turning point has been reached, and the commencement of a steady increase of persons entering the calling of pharmacy. A further improvement in the knowledge and training of the candidates entering this examination is reflected in the increase in the number of those successful. In 1912 395 candidates were successful out of a total entry of 874, showing a percentage of passes of 45.19 per cent. In 1913 453, or 51.36 per cent., were successful. The number of candidates for the Major examinations in 1913 was 60, as compared with 58 in the previous year, and 45, or 75 per cent., passed.

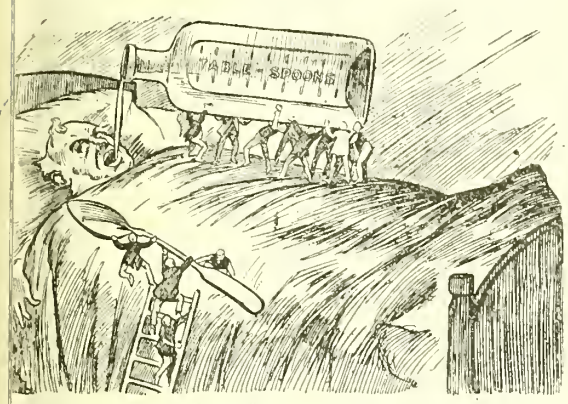
Evening Meetings.—In addition to the usual arrangements for the discussion of scientific papers during the winter session the Council was able to provide as a sequel to Dr. Hewlett's lectures on bacteriology, a course of four lectures on the "Applications of Electricity to Medical Treatment," which were delivered by Mr. R. S. Wright, A.M.I.E.E., during January, February, and March. It is in contemplation to develop this feature of the scientific work of the Society, and a special Scientific Committee is in process of formation to advise the President and officers in connection therewith. The Council have in view the necessity of revising the examination syllabus as soon as the conditions of pharmaceutical education shall be more settled. The lectures mentioned above were organised in order to obtain suggestions as to new subjects which could be added to the curriculum of studies in order to fit the pharmacist for the efficient discharge of duties rendered necessary by the development of medical practice.

Obituary.—The Society has lost by death during the past year the following officers: Dr. Edouard Schaer (Strassburg), honorary member since 1888; Walter Murton Holmes, a former member of the Board of Examiners; Francis U. Stamp, a member of the Board of Examiners; John W. Sutherland, a member of the Executive of the North British Branch, and a former member of the Board of Examiners (Scotland).

A Maryhill Chemist received a dirty scrawl the other day demanding, "Please gie me a prepurashun for ma cofin." He gave a cough-mixture.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.



"A Prodeegious" Capacity.

The Aberdeen "Evening Express" published the above artoon last Saturday, with the inscription:

The Lilliputians (chemists) and the sick giant "Bonaccord." No wonder it does not pay them.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Berkshire.—A report from the Drugs Sub-Committee of the County Panel Committee came before the Insurance Committee on April 25. This recommended that vaccines should not be allowed as part of Medical Benefit, and also stated:

The Sub-Committee object strongly to the principle of proprietary medicines being prescribed, because in every instance there are official preparations which are practically identical, and which are much cheaper, and also because it forces the pharmacists to keep parcels of preparations from a large number of manufacturers, a large proportion of which must be wasted, with the inevitable result of raising the expense of drugs all round.

The Local Panel Committee have already sent round to all the Berkshire doctors two lists, one of which contains preparations with their actual official synonyms, and another suggesting official preparations which, though not actually the same, practically serve the same purpose.

As neither doctors nor pharmacists have as yet been officially informed of these decisions, any ruling by the Insurance Committee should not be retrospective, and all bills from the pharmacist should be honoured till this matter is made clear to both parties.

The Medical Benefit Sub-Committee recommend the Insurance Committee to raise no objection to the decisions arrived at, but to remind panel doctors that any prescription for drugs not included in the Drug Tariff must be written on the special prescription-form, and to request the chemist to return to the medical practitioner any prescription not in accordance with these requirements. The County Pharmaceutical Committee had notified that they are in complete agreement with the report of the above Drugs Sub-Committee. During the discussion it was suggested that, in order to avoid delay in insured persons obtaining their medicines owing to the returning of the prescriptions to the doctor when proprietary medicines were prescribed, chemists should have power to supply the equivalent from the official list. The Chairman and other members, however, considered that it would be a dangerous practice to allow chemists to vary prescriptions. The question was referred to the Medical and Pharmaceutical Joint Committee.

Blackpool.—The Insurance Committee met on May 4, when a letter was read from the Pharmaceutical Society of Great Britain regarding the overspending of the Drug Funds in various Lancashire areas, and pointing out that a conference was to be held at the County Offices, Preston, on May 14. The Society asked for representatives to be sent from Blackpool. The Chairman (Dr. Butcher) stated that in the first quarter of the current year the Drug Fund was insufficient for the first time. Mr. Bailey, chemist, stated that last quarter the provisional drug credits were overspent to the extent of about 30*l*. This particular quarter was the heaviest in the year. The next two, in all probability, would be much less. They would be underspent, and one would counteract the other. Some effort was to be made for the whole area to deal with the checking of prescriptions, not only on behalf of Insurance Committees, but on behalf of the Pharmaceutical and Panel Committees. They should agree to a uniform procedure for the county of Lancashire. Mr. Barritt and Mr. Bateson (the Clerk) were deputed to represent Blackpool at the conference.

Bournemouth.—The Insurance Committee have decided, subject to the approval of the Insurance Commissioners, to allocate 47*l*. per annum to the Pharmaceutical Committee for administration purposes.

Bradford.—Panel chemists are greatly concerned at the increase of 16,000 in Insurance prescriptions last quarter. The total is 121,904, costing 4,818*l*. The money available to pay the drug-bills is only 3,300*l*. In face of a possible discount of 33 per cent., some chemists are freely talking of going off the panel. The quarter has been the heaviest by far since the Act came into operation, both in regard to number of prescriptions and to their cost. In the preceding quarter the increase in the total cost of prescriptions was 750*l*. This time the increase is 950*l*., partly attributable to increase in Tariff prices, but more to increased extravagance in the scale of prescribing. An investigation is contemplated to find out the average cost per prescription for each doctor.

Burton-on-Trent.—During the medical year ended January 11 panel chemists dispensed 46,701 prescriptions at a cost of 1,451*l*. 5*s*. 3½*d*.—an average of 7.458*d*. each.—The Pharmaceutical Committee, in view of the fact that the chemists' accounts were checked for only one quarter last year, requested the Insurance Committee to arrange for an independent check during the current year, and suggested that the expense should be borne equally by the Insurance Committee, the Panel Committee, and the Pharmaceutical Committee. The Insurance Committee's Finance Sub-Committee recommended that this request be not acceded to, adding: "We are of opinion that it is the duty of the chemists to check the accounts." At the Insurance Committee's meeting, Mr. W. Lean objected that this was contrary to the meaning of the regulations, and proposed that the matter be referred back, pending a ruling of the Commissioners on the point. This was eventually agreed to, though the Committee were mostly of opinion that the new regulations laid the responsibility for checking upon the Pharmaceutical Committee. The Commissioners have now replied that the final responsibility of guarding against improper disbursements from the Drug Fund rests with the Insurance Committee, "and that the expense must be borne by them out of the Administration Fund, unless arrangements are made whereby the Panel and Pharmaceutical Committees agree to bear a portion." It has therefore been decided that the accounts for the first quarter be checked by an independent checker, at the Insurance Committee's expense, as the Panel Committee refused to bear any portion of it. An application from the Pharmaceutical Committee for 10*l*. for administration expenses was approved. The Commissioners have objected to an item of 2*l*. for travelling expenses. It is believed that they thought this was intended to pay the expenses of the member attending the Insurance Committee, whereas it was for expenses of delegates attending county or national meetings of Pharmaceutical Committee's delegates. This has been explained to them, and request for sanction under this head forwarded. There is a large increase in the number of prescriptions for the first quarter over the corresponding quarter of last year.

Colne Valley.—At a meeting of the district Insurance Committee for this area on May 4, Mr. S. Carter stated that a doctor had informed him of a case of a patient who had taken eight or ten bottles of medicine dispensed by a chemist without deriving any benefit therefrom. The patient asked the doctor to dispense the medicine himself, whereupon he was back at work in a fortnight. Mr. Carter asked whether any means were being taken of testing drugs. The Chairman stated that no action had been taken by the West Riding Committee. Mr. S. Stephens, pharmacist, hoped the statement made by Mr. Carter would be fully investigated. He had not heard of a single complaint of the kind before.

Devonport.—The Insurance Committee were informed by the Medical Benefit Sub-Committee on April 28 that they had passed a resolution that the chemists' accounts for the current year be checked in the following manner: "That 25 per cent. of the prescriptions submitted by each chemist on the panel with each quarterly account be checked, and that the percentage of error in each portion checked be deemed to represent the percentage of error in the total account, whether it be by way of over or undercharge." It was mentioned that the proposal had to be submitted to the Panel and Pharmaceutical Committees for approval before it could become operative. The Clerk stated that he

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had received by telephone a notification that the Panel Committee had agreed to the suggestion. He had not received any communication from the Pharmaceutical Committee.

Dewsbury.—The Drug Tariff as used in the West Riding, as well as the West Riding Formulary has been adopted in the Dewsbury area, along with the Ready-reckoner used for pricing-out prescriptions.

Hull.—A sum of 10*l.* is to be allowed to the Pharmaceutical Committee for administration expenses.

Liverpool.—Much anxiety is being evinced by panel chemists, owing to the fact that Insurance dispensing in the first quarter of the current year is 30 per cent. in advance of the corresponding quarter of last year. Unless the two "summer quarters" are very lean, there is every reason to believe that chemists' bills will have to be discounted at the year-end. It is proposed to pay 75 per cent. only this quarter, instead of 95 per cent. paid formerly.

Middlesex. At the meeting of the Insurance Committee on May 4, the Pharmaceutical Service Sub-Committee reported on two complaints against chemists. The first was from an insured person, who alleged that he had been supplied with malt and oil of an inferior quality, and was told that if he required a superior quality he must pay 2*d.* extra for it. The Sub-Committee found that there was no justification for the complaint. In the second case an insured person complained of the time he was kept waiting while a prescription was being made up; but he did not appear in support of the allegation, which was denied.

Oxford.—The number of Insurance prescriptions last quarter amounted to 13,965, costing 505*l.* 4*s.* 7*d.*, an average of 8.68*d.* each. These figures far exceed previous records, and local chemists for the first time are faced with a deficiency in the Drug Fund. The Insurance Committee are paying on an 80-per-cent. basis. Formal application has been made to the Panel Committee to put into operation the provisions of Regulation 40 in regard to excessive prescribing. An abstract of about 1,000 prescriptions of the value of 1*s.* 3*d.* and over, and grouped under the prescriber's name, has been collated.

Oxfordshire.—The number of Insurance prescriptions dispensed by chemists on the county panel amounted to 9,835, at a cost of 313*l.* 15*s.*, during the quarter ended April 11. The prescriptions and accounts were checked by the Pharmaceutical Committee, and payment in full passed by the Insurance Committee on April 28. Cheques for same will be posted this week. We shall be glad to hear of other Insurance Committees who have settled their chemists' accounts so expeditiously.

Plymouth.—The following resolutions were passed at a meeting held at 7 Whimple Street on April 30, which was fully representative of local panel chemists:

"That, in consequence of the financial embarrassment due to the delay in the full payment of the Plymouth chemists' accounts, representing a deficiency of nearly 2,000*l.*, this emergency meeting of Plymouth panel chemists calls upon the Plymouth Insurance Committee to urge the Insurance Commissioners to make immediate arrangements for payment of outstanding balances."

In a covering letter to the Clerk of the Plymouth Insurance Committee it was stated that, while the meeting express their very high appreciation of the Insurance Committee's efforts on behalf of the chemists, the Committee will see the impossibility of the present position continuing without some absolute guarantee from the Commissioners. A copy of the letter and resolution have also been forwarded to the Insurance Commissioners with a strongly worded covering letter. It was decided that after May 1 distilled water should not be used or charged for unless especially ordered. The Secretary was able to report that the application for a grant of 15*l.* to pay for administrative expenses was favourably received by the Medical Benefit Sub-Committee and Insurance Committee. Suggestions for checking prescriptions were deferred.

Sheffield.—The Insurance Committee met on May 6, when the names of Messrs. W. H. Beeley, 298 Attercliffe Common, and Henry Bown, 154 Cemetery Road, were added to the list of chemists. The new shop of Mr. Samuel Paddon at 131 Attercliffe Common was also registered for purposes of Insurance dispensing. It was decided to reply to a chemist that Zemotone (asthma-cure), being of the nature of a secret remedy, could not be allowed as part of Medical Benefit. A complaint from the Pharmaceutical Committee *re* the use of private formulary had been referred to the Panel Committee. The Secretary of the Panel Committee replied that "my Committee desires me to inform you that it disapproves of the use of private formularies, but inasmuch as a comprehensive official formulary is being compiled by the Panel Committee, it is of opinion that any action of a repressive nature should be postponed until its formulary is published. My Committee desires it should be furnished as early as possible with copies of any private formularies that may be in use." Persons desirous of obtaining homœopathic treatment are to be allowed to make their own arrangements. The Pharmaceutical Committee wrote that the withholding of 25 per cent. of the chemists' accounts for last year is causing hardship, which would be removed to a great extent if the Committee could see its way to pay a further 15 per cent. It was decided that a further payment of 10 per cent. of the face-value of accounts rendered for the medical year ended January 11 last be made, subject to a receipt being given in a form to be drawn up by the Clerk, which shall provide for the repayment of any portion of such moneys should it be found necessary to reclaim. The Clerk reported that, in order to keep the payments on account to chemists for the drugs and appliances within the 90 per cent. of the amount estimated to be available towards the cost of drugs, etc., for the quarter ended April 11, 1914, as set forth in the Commissioners' letter of December 5 last, it would be necessary that a sum equal to 60 per cent. only of the face-value of accounts rendered for the month ended April 11 should be paid to chemists on the list, instead of 75 per cent. as heretofore. Thus the third payment for the current year will be 1,101*l.* 13*s.* 6*d.*, being 60 per cent. of the accounts rendered. For the quarter ended April 11 medical practitioners receive 101*l.* 9*s.* 6*d.* for medicines supplied under the mile-limit rule, and 19*l.* 7*s.* for emergency drugs and dressings. The Clerk reported that he had received a number of replies to the advertisement for a temporary assistant to the pharmacist on the staff of the Committee. The Chairman and Clerk were authorised to make the appointment.

Shropshire.—Complaints made against chemists at Oswestry were so frivolous that the Insurance Committee has decided to take no action.

Southport.—The question of publishing detailed accounts was raised in committee by the medical members after the Insurance Committee's meeting on April 28. It was urged that the publication infringed the code of honour of the medical profession, who, unlike chemists, did not advertise. At the previous monthly meeting a member had urged that if chemists' accounts were published it was equally necessary to do the same in the case of doctors, because in both cases the rates of pay were fixed. Eventually it was decided in future to make public total amounts only.

Sussex (East).—During the medical year ended January 11 the average value of each prescription for the county worked out at 7.16*d.*, the average number of prescriptions per head 2.77, and the average cost of drugs per head 1*s.* 7.8*d.* The average cost of drugs per head was highest at Hove and Newhaven, which were respectively the largest and the most purely industrial area in the county. Newhaven showed the lowest average value per prescription and the highest number of prescriptions per head. Apart from these variations, however, the figures for rural or semi-rural areas, such as Rotherfield, Forest Row, and Hurstpierpoint on the one hand, and Crowborough on the other, revealed considerable differences in the average value of each prescription: while similar areas, such as Hailsham on the one hand, and Uckfield and East Grinstead on the other, showed an even more marked divergence in the cost of drugs per head.

West Bromwich.—Chemists have now received payment on account for last quarter of about two-thirds of the amounts rendered. The Pharmaceutical Sub-Committee, consisting of Messrs. Allen, Edgson, and Osborne, took part in a conference on May 4 at the Insurance Committee's offices, when "Rep. mist.," doctors recommending special chemists, compilation of local formulary, Drug Fund deficit, etc., were discussed. The pharmacists conducted their side of the business very tactfully and skilfully, and a pleasant and friendly afternoon resulted in several important decisions which should prove useful to both doctors and pharmacists.

West Riding.—At the meeting of the Insurance Committee on April 30, Alderman H. Dunn, chemist, moved the adoption of the minutes of the Medical Benefit Sub-Committee, which stated that the complaints received from Woodlands as to undue influence being exercised by practitioners upon patients in the choice of chemist had now been removed by the display of a notice in the surgery informing patients that they have a free choice of chemist. This Sub-Committee recommended that the opinion of the Commissioners be taken as to the legality of any arrangement whereby a practitioner could carry on the business of a chemist by means of a qualified chemist as his agent. Mr. W. Pickard moved that the matter be referred back. The Act, he said, distinctly stated that no doctor should dispense medicines within the mile radius.

He did not see why the Committee should consult the Commissioners when the law was quite clear. If the law could be got over so easily by medical men, chemists would be deprived of their dispensing work in more instances than at present. Alderman Ben Turner said he hoped the matter would not be referred back. The lady who was doing the dispensing at Woodlands was a qualified chemist, and there was no knowledge obtainable that the shop was not hers. The amendment was lost and the minutes adopted.

York.—The Insurance Committee on April 30 resolved to pay 75 per cent. of the amounts due in respect of the first quarter's (1914) accounts, together with the outstanding balance of 25 per cent. on the third quarter's accounts, after making the adjustments for the second and third quarters. It was also decided to make a further payment of 10 per cent. on the fourth quarter's accounts, thus leaving a balance of 15 per cent. pending the final credits from the Commission. A member stated that a chemist had made a charge for making up a prescription on early-closing day. He was informed that the Pharmaceutical Committee would investigate the matter if a complaint was laid.

SCOTLAND.

Higher Dispensing Tariff.—The Scottish Insurance Commissioners have now issued to every panel doctor in Scotland a summary of the claims for better remuneration, lodged with the Commissioners by Scottish panel chemists in October last, and each panel doctor is requested to intimate to the Secretary of his Panel Committee not later than May 9 whether or not he approves of the claims made on behalf of panel chemists. Their replies have to be in the hands of the Commissioners by May 20. [This is dealt with editorially on p. 49.] With the circular is issued a card bearing the following questions, which the doctors are asked to answer:

1. Do you approve of payment out of the Drug Fund, including, if necessary, the Drug Suspense Fund, of the increased dispensing fees desired by the chemists in respect of the current medical year 1914?

2. Do you approve of the adjustment of prices as explained in Paragraph 12 of circular letter from Scottish Insurance Commissioners, dated May 2, 1914?

Aberdeen.—Burgh panel chemists are not to allow to pass unchallenged the recent large deductions that have been made from their accounts for Insurance dispensing. On three previous occasions they suffered a deduction of 5 per cent. from their accounts; on a fourth the amount deducted was 25 per cent. Consideration of the most recent deduction (47½ per cent.) was the object of a meeting of panel chemists held in Robert Gordon's Technical College on April 30. Mr. J. Reith (Cults), President of the Aberdeen Pharmaceutical Association, was in the chair. After full discussion, the following resolution was passed, and it was ordered to be submitted to the Insurance Committee:

> That this meeting of panel chemists, having had under consideration the payment of the drug accounts under the National Health Insurance in the Aberdeen burgh area, desire to enter an emphatic protest regarding the inadequacy of the sums paid for the last two quarters, and particularly for the quarter just closed, they only having received 52½ per cent. of the total accounts due; and they also desire to point out to the Insurance Committee that chemists are in no way responsible for the quantity of medicines used, their duty under their contract with the Committee being entirely confined to the dispensing of medicines ordered by the medical practitioners on the panel in accordance with the Tariff prices agreed upon, and this they claim to have faithfully done. They feel they need scarcely point out to the Committee the utter impossibility of such a state of matters being allowed to continue without very serious consequences following. They therefore request the Committee to get an assurance from the Commissioners before June 1 that the arrears will be paid within a reasonable time, otherwise they consider the panel system in the Aberdeen burgh area will be seriously imperilled.

It was also agreed that it be remitted to the Pharmaceutical Statutory Committee to send a memorial to the Insurance Commissioners on the grounds of the following motion:

> This meeting of panel chemists in the Aberdeen burgh area, in view of the extreme gravity of the position in which they are placed through the inadequacy of payments, hereby require the Statutory Committee to forward to the Scottish Commissioners a memorial setting forth a full statement of the case, and assuring them of the impossibility of continuing on the panel under the existing conditions, request an assurance that in future no *pro rata* arrangement of payment will exist, and not more than 10 per cent. deductions made previous to the checking of the accounts, and that only until the accounts are checked and adjusted; and also protesting against the injustice of paying bonuses in some areas while in others the ordinary accounts are not met.

Dumbarton.—Mr. John Weir presided at a meeting of the Pharmaceutical Committee in Glasgow on April 29. There was a discussion on the claim by panel doctors in rural areas to share in the balance remaining at the credit of the Drug Fund for unallocated persons during the past year. It was agreed to ask the Insurance Committee for a list of the names and addresses of those persons. The Secretary was also instructed to write again to the Insurance Committee and press for the immediate payment of the 10 per cent. deducted from panel chemists' accounts during the past year, *plus* the bonus on the allocated, leaving the question of those unallocated persons in rural areas for future adjustment. The Secretary read a letter from the Insurance Committee, which stated that during the current year 90 per cent. of chemists' accounts will be paid each quarter, the amount deducted at the close of first quarter being paid with the next quarter's account. The names of Mr. Donald McArthur (Yoker) and Mr. George Sutherland (Dumbarton) were approved as applicants for the dispensing panel.

Edinburgh.—A report of the Burgh Insurance Committee gives a list of incomes made by Edinburgh panel doctors during 1913, the highest being 988*l.* 13*s.*, and the lowest 8*s.* 8*d.* The list of chemists for supply of medicines shows that one received between 500*l.* and 450*l.*, three over 200*l.*, four over 150*l.*, seven over 100*l.*, twenty-five between 100*l.* and 50*l.*, and ninety-five less than 50*l.* (varying from 11*d.* to 49*l.* 6*s.* 4*d.*), besides the substantial bonus which will shortly be paid to the chemists on the panel.

Fife.—The County Insurance Committee has issued a list of drugs and appliances for emergency purposes, approved by the Insurance Committee for the County of Fife, as follows:

2 dozen assorted bandages selected from various kinds and sizes listed in the Tariff (excluding elastic web, flannel, indiarubber, and plaster of Paris bandages).
1 roll gauze unmedicated.
1 roll gauze picric.
1 roll gauze cyanide.
1 lb. boric lint.
1 lb. cotton wool.
½ yard oiled silk.
1 spool rubber adhesive plaster, 1 in. by 10 yards, at 2*s.*
8 oz. lysol, at 1*s.*
4 oz. sol. of iodine, 2 per cent. in spt. vini rect.
8 oz. acidi carbolic. liq.
4 oz. chlorof. meth., at 7*d.*
2 oz. æther meth., at 5*d.*
8 oz. liq. hyd. peroxide (10 vols.).
1 tube hypodermic tabs. morph. sulph., gr. ¼, at 8*d.* (20 tabs).
1 tube hypodermic tabs. strych. sulph., gr. $\frac{1}{60}$, at 8*d.* (20 tabs).

The prices, except where otherwise indicated, are those of the Drug Tariff. The amount stated in each case is the maximum supply for one calendar month.

Stirling.—At a meeting of the Stirling Burgh Insurance Committee last week, it was explained that, owing to an epidemic of influenza, which required extra dispensing, the Committee was only able to give the chemists 65 per cent. of the amount of their accounts for the quarter.

WALES.

Pharmaceutical Committees.—The Secretaries of these Committees in Welsh counties and boroughs are:

Anglesey.—Robert W. Humphreys-Lewis, Llangefni.
Brecon.—J. F. Davies, 7 High Town, Hay.
Cardiff.—Samuel B. Eason, 81 Tudor Road, Cardiff.
Cardigan.—B. Taylor Lloyd, 20 Great Darkgate Street, Aberystwyth.
Carmarthen.—J. Davies, 18 Stepney Street, Llanelly.
Carnarvon.—Percy Evans, 8 Bangor Street, Carnarvon.
Denbigh.—J. Bridge Francis, 53 Hope Street, Wrexham.
Flint.—A. E. Slinn, 33 Wellington Road, Rhyl.
Glamorgan.—G. Ivor Williams, 3 and 4 Bethania Street, Maesteg.
Merioneth.—J. Lloyd Jones, The Pharmacy, Blaenau Festiniog.
Merthyr Tydvil. John Francis, 148 High Street, Merthyr.
Monmouth.—F. E. S. Clarke, 41 Commercial Street, New Tredegar.
Montgomery.—F. J. Nash, 48 Broad Street, Newtown.
Newport.—T. J. Badgett, 48 Clarence Place, Newport, Mon.
Pembroke.—J. Lewis Jenkins, 31 Bridge Street, Haverfordwest.
Radnor.—T. Price Davies, Clevedon, Llandrindod Wells.
Swansea.—W. Thomas, Alexandria Road, Gorseinon.

Pembrokeshire.—At the last meeting of the County Insurance Committee the Chairman (Mr. Sketch) said it was of the utmost importance that panel doctors should take care in giving prescriptions. He was told that a prescription for a baby which had been scalded was made out on an Insurance form in the name of the father. An insured person presented an order for a second bottle of cod-liver oil and malt before the first bottle could have been used. If similar occurrences came to his notice again, he should take steps with a view to having the offender's name removed from the panel. Two medical members asked for the matter to be brought before the Medical Committee, but the Chairman said he had no authority to mention names. It transpired afterwards that chemists had been paid in full for the quarter ended January last, upon the understanding that any deficiency in the Drug Fund for the past medical year should be made good from the current quarter's accounts.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., May 7, 6.30 p.m.

TRADING in chemicals and drugs remains much as previously reported, there being a general complaint as to its slowness. Values for the most part remain firm, with several articles showing a rising market. This especially applies to Japanese refined camphor, in which a large arrival business has been done in slabs at higher rates. Monopoly camphor prices have been withdrawn. Menthol and Japanese mint oil have been in demand for arrival, the undertone being firmer on Hamburg "bears" covering. Camphor oil is scarce and dealers have marked up their prices. The firmer tone in new Norwegian cod-liver oil is maintained owing to the small progress at Finmarken. Chrysarobin has been advanced about 6*d.* owing to scarcity of araroba. Colocynth apple and Japanese chillies are dearer. Morphine tending firmer; codeine is quite firm and unchanged; while cocaine remains weak. Other changes comprise an easier feeling in lemon oil to arrive, bergamot being distinctly lower; orange steady. Star-anise oil to arrive is also lower. Shellac, Japan wax (c.i.f.), celery-seed, cocoa-butter, and senega are all in favour of buyers. Citric acid is dearer, and tartaric acid and cream of tartar are both firm. Alterations in seeds include an advance in cumin; canary and caraway are firm; coriander is easier. The principal changes have been as under:

Higher	Firmer	Easier	Lower
Camphor (Jap. ref.) (German bells)	Cod-liver oil	Ammonia sulphate	Anise oil (Star) (c.i.f.)
Camphor oil	Mace	Celery-seed	Bergamot oil (c.i.f.)
Chillies (Jap.)	Menthol (c.i.f.)	Cocoa-butter	Copper sulphate
Chrysarobin	Morphine	Coriander-seed	Gambier
Citric acid	Tartaric-acid (Eng.)	Lemon oil (c.i.f.)	Wax (Japan) (c.i.f.)
Colocynth	Turpentine	Senega	
Cumin-seed		Shellac	
Soda nitrate			

Cablegrams.

BERGEN, May 7.—The Finmarken catch of cod continues small owing to continued stormy weather. The market for finest non-congealing Lofoten oil is firmer at 66*s.* 6*d.* per barrel c.i.f.

AMSTERDAM, May 7.—At the auction of pharmaceutical bark held to-day the equivalent of 1,283 kilos. quinine sold, the prices ranging from 15c. to 64c.; of the manufacturing bark offered for tender the equivalent of 45,820 kilos. quinine was disposed of, the unit being 6.20c. per half-kilo. All the coca-leaves sold, the average unit being 15.63 per half-kilo.

NEW YORK, May 6.—Business in drugs is fair. Opium is steady at $5.60 per lb. for druggists'. Peppermint oil in tins is firmer at $4.25. Menthol is lower at $2.95, and Mexican sarsaparilla is firmer at 40c. per lb. Cartagena ipecacuanha is easier at $1.50. So-called American saffron is firmer at 60c. True winter-green oil has been reduced to $4.10, and oil of sweet birch to $1.25 per lb.

London Markets.

ANISE OIL (STAR).—Very quiet, with "Red Ship" brand offering on spot at from 5*s.* 8*d.* to 5*s.* 9*d.*, and to arrive 4*s.* 9*d.* to 4*s.* 10*d.* c.i.f. is quoted for May-June shipment.

ANISEED is quiet and unchanged at 25*s.* to 27*s.* per cwt. for common to good Russian, and at 35*s.* for Spanish.

ANTIMONY.—China crude is quoted at 13*l.* per ton on spot.

ARROWROOT.—At auction 140 barrels fair manufacturing St. Vincent were bought in at 2¾*d.*

ARSENIC.—Demand for delivery ex contract is good, and the tendency is if anything firmer at the previous prices of from 14*l.* to 14*l.* 5*s.* per ton in barrels for ton lots, and 1*l.* more for kegs.

BENZOIN.—The *Nile* has brought 73 cases from Penang.

BERGAMOT OIL is lower for prompt shipment, well-known brands offering from 16*s.* 5*d.* to 17*s.* 6*d.* per lb. c.i.f. Spot prices vary from 18*s.* to 19*s.*, and even more for 40-per-cent. esters.

A Sicilian report, dated May 2, states that the smallness of the demand continues to act depressingly on the market, and it has thus been possible for buyers to obtain small reductions from needy holders who are obliged to sell. The position does not point to any possibility of an improvement in the near future, because, notwithstanding the resistance of growers, there seems no probability of any new current of life coming into the market to give them a favourable chance; a hand-to-mouth policy is advisable.

CAMPHOR (CRUDE).—It is stated that the Japanese Government have withdrawn their quotations from the market and are not sellers, so that the official price is nominal. They are reported to be short of supplies, and some look upon this as presaging an advance.

CAMPHOR (REFINED).—Japanese is again firmer, with a fair business early in the week in 2½-lb. slabs for September-October shipment at 1*s.* 5*d.* c.i.f., but now 1*s.* 5¼*d.* c.i.f. is asked for slabs and 1*s.* 6¼d. c.i.f. for 1-oz. tablets. On the spot, sales of tablets have been made at 1*s.* 6*d.* and ½-oz. at 1*s.* 6½*d.*; sellers of slabs ask 1*s.* 6*d.* on spot, with buyers at 1*s.* 5½*d.* German bells have been advanced 1*d.* per lb.

CAMPHOR OIL remains very scarce, with small lots offering at 65s. per cwt. on the spot. The shipments from Japan during the two months ended February were 186,250 kin, as compared with 214,489 kin and 338,816 kin in 1913 and 1912 respectively.

CANARY-SEED is firm, but rather slow of sale. Ordinary quality is held for 94*s.* per quarter, good to fine Morocco is quoted 110*s.* to 115*s.*, and Spanish 125*s.* to 135*s.* for fine to extra bold.

CARAWAY-SEED is firm at 27*s.* 6*d.* to 29*s.* per cwt. for fair to good Dutch on the spot.

CASSIA OIL.—Business is quite retail on spot at 3*s.* 4*d.* for 80 to 85 per cent. c.a., and 3*s.* for 70 to 75 per cent. c.a. Sellers to arrive (May-June shipment) are firmer at 2*s.* 10½*d.* for 80 to 85 per cent., 2*s.* 8½*d.* for 75 to 80 per cent., and 2*s.* 6*d.* for 70 to 75 per cent.

CASTOR OIL.—Hull make is quoted at 28*l.* for pharmaceutical quality, 25*l.* 10*s.* for first pressing in barrels for prompt delivery free on wharf London, June-December delivery being 1*l.* more; oil in tins and cases 50*s.* per ton extra. Belgian firsts offer at 25*l.* per ton in barrels for prompt and forward f.o.b. Antwerp.

CELERY-SEED.—Fair stocks are now available, and the market is easier, with sellers at 80*s.* per cwt. c.i.f.

CHILLIES.—Japanese are dearer, with small spot sales at 60*s.* per cwt.

CHRYSAROBIN.—Owing to the scarcity of araroba prices have advanced about 6*d.* per lb., values now being from 6*s.* to 6*s.* 3*d.*

CINCHONA.—The exports from Java to Europe during April amounted to 1,088,000 Amst. lb., against 752,000 A. lb. in 1913 and 873,000 A. lb. in 1912. The total shipments from January to April 1914 amounted to 4,983,000 A. lb., against 4,586,000 A. lb. in 1913.

CINNAMON.—Quiet; of 39 bags Ceylon, 12 sold at 8½*d.*, subject, for broken and quillings; 55 bags coarse chips were bought in at 2½*d.*

Citric Acid is again higher at from 2*s*. 4*d*. to 2*s*. 4½*d*., both prices having been paid this week for retail lots.

Cloves.—At auction 10 bales Zanzibar sold at 6*d*. for fair and 5¾*d*., subject, for dark; 12 cases Penang were bought in at 1*s*. 2*d*. Privately, spot sellers of fair Zanzibar quote 6*d*.; to arrive there are sellers of May-July at 5⅝*d*., June-August at 5⅝*d*. c.i.f. d.w., and June-August delivery at 5 13/16*d*.

Cocaine remains a very weak market, with makers offering hydrochloride at 4*s*. per oz. and second-hands slightly less.

Coca-leaves.—During April 2,944 packages coca were shipped from Java to Europe, against 2,423 packages during April 1913. The total shipments (January-April 1914) were 11,130 packages, against 12,403 packages at the corresponding period of 1913.

Codeine is unaltered, but quite firm on the basis of 10*s*. 10*d*. per oz. for 175-oz. lots of the pure crystals. Under-cutting of prices is less noticeable.

Cod-liver Oil.—The comparatively poor progress being made at Finmarken gives a firmer undertone to the market, agents quoting from 66*s*. per barrel to 70*s*. c.i.f. for finest new non-congealing Lofoten oil. The amount of oil already manufactured appears to prohibit the possibility of any material advance; on the other hand, prices are now at a point which will not permit of much of a decline.

Messrs. Freudentheil & Co. state that, according to cabled statistics received from Norway on May 4, the catch, the output of cod-liver oil, and the quantity of livers set aside for natural oil up to the week ended May 2, as compared with the corresponding date of last year, was as follows:

	Catch of cod	Livers for raw oil (hect.)	Yield of c.l.o. (hect.)
Finmarken, 1914	5,147,000	1,003	4,995
do. 1913	8,408,000	742	5,589
Whole country, 1914	63,000,000	8,903	46,915
do. 1913	49,500,000	6,734	31,102

In consequence of the poor fishing in Finmarken and other districts, and the increase in the cost of production, the market is now firmer, and is likely to go much higher should no improvement take place.

Our Bergen correspondent writes on May 4 that very meagre results were obtained at the Finmarken cod-fishing, owing to constantly stormy weather. The increase of the catch during the week ended May 2 is only little more than one million, against almost five millions in the corresponding week of 1913. The official report gives the following totals for all the Norwegian cod-fisheries up to May 2:

	1912	1913	1914
Catch of cod (millions)	74.3	49.5	63.
Yield of c.l.o. (hect.)	56,200	31,100	46,900
Yield of liver for raw oils (hect.)	16,100	6,700	9,000

The tendency of the market is decidedly firmer at the quotation of 66*s*. 6*d*. c.i.f. for prime non-congealing Lofoten cod-liver oil.

Colocynth.—Fine apple has been in more inquiry, with sales made at 6*d*. per lb., but one importer has withdrawn his stock, asking 1*s*. per lb. *Pulped* is unobtainable.

Copper Sulphate is cheaper, the usual Liverpool brands offering at 21*l*. 7*s*. 6*d*. and May-June 21*l*. 5*s*.

Coriander-seed is rather easier, the demand being very slow. Good Morocco is offering at 16*s*., and a small business is passing in wormy at 10*s*. per cwt.

Cream of Tartar remains quite firm at 97*s*. for 98-per-cent. and 95*s*. for 95-per-cent. London.

Cumin-seed is scarce and has risen in price, the quotation being given at 28*s*. per cwt. for slightly wormy Morocco. The stock of Malta appears to be exhausted.

Ergot.—Reports as to the prospects for this season's Russian crop vary. The latest information is to the effect that it is difficult to obtain offers direct from Russia, a quotation of 1*s*. 5*d*. being tentatively named. The spot value of sound Russian is 1*s*. 8*d*.

Fenugreek-seed is difficult of sale, and a bid of 9*s*. per cwt. would probably be accepted for a quantity, but for small lots 9*s*. 6*d*. is being paid.

Gamboge.—Business has been done in fair Siam pipe at 13*l*. per cwt.

Geranium Oil is easier, with Bourbon offering for May delivery at 11*s*., with the possibility that a bid of slightly less might be accepted. Spot price for genuine is 12*s*. 6*d*. net.

Ginger.—At auction 559 bags were bought in, comprising good bright, washed, rough Cochin at 28*s*. and low brown, rough wormy Calicut at 20*s*.

Gum Acacia.—Sudan sorts are steady, with sales of fair half-hard sorts at 33*s*., and at 50*s*. to 53*s*. for pale soft; to arrive from 30*s*. to 30*s*. 6*d*. c.i.f. Khartoum to London is quoted for fair quality of the season, being slightly firmer. East Indian descriptions are neglected, No. 1 Ghatti offering to arrive at 28*s*. and No. 2 at 17*s*. 6*d*. per cwt. c.i.f. Senegal quiet, with the usual Bas de Fleuve quality offering at 30*s*. per cwt. f.o.b. Bordeaux for prompt shipment.

Honey.—The favourable prices at which Jamaica offered last week enabled the brokers to clear their unsold lots after the auction.

Lemon Oil is again easier, with May-June shipment offering at from 6*s*. 9*d*. to 7*s*. 3*d*. per lb. c.i.f. Spot is quoted at from 7*s*. 3*d*. to 7*s*. 9*d*.

A Sicilian report, dated May 2, states that the position remains entirely unchanged; in fact, with the exception of a few orders of no great importance, the same absence of business which we have had to report for several weeks past continues to be the most prominent feature. At the same time, the resistance of holders has become greater at the reduced level of prices.

Lime-juice is moving off steadily, the range of value being from 1*s*. 4*d*. to 2*s*. per gal. as to quality.

Linseed is unchanged, with little doing, and quotations are unaltered at 50*s*. to 52*s*. per quarter for fine quality.

Mace.—Rather firmer for West Indian, 37 packages being sold at auction, comprising fair to good 2*s*. 2*d*. to 2*s*. 4*d*., red 1*s*. 9*d*. to 1*s*. 10*d*., ordinary 1*s*. 11*d*. to 2*s*., and broken 1*s*. 5*d*.

Menthol.—The spot value of Kobayashi-Suzuki is about 10*s*. per lb. Arrival prices are, however, firmer, owing, it is said, to "bear" covering on the part of Hamburg dealers. For April-May shipment sales of Kobayashi-Suzuki have been made at 9*s*. 3*d*. c.i.f., but on Wednesday 9*s*. 4*d*. c.i.f. was quoted for this position. Over 200 cases menthol and oil have arrived this week.

The exports of menthol from Japan during February amounted to 45,163 kin, valued at 311,180 yen, and for the two months ended February 28 they are as follows:

	1912	1913	1914
Kin	35,451	52,966	82,225
Yen	375,279	722,112	594,338

The destinations for the two months (January-February) were as follows:

	1912 Kin	1913 Kin	1914 Kin
British India ...	1,131	1,852	2,534
Great Britain ...	12,421	18,544	21,838
France	2,250	6,308	3,606
Germany	8,980	14,304	26,557
United States ...	10,157	8,916	24,356
Other countries ...	212	3,042	3,334
Kin	35,451	52,966	82,225
= Cases ...	788	1,177	1,827

The exports of *mint oil* from Japan during February were 43,696 kin, valued at 135,752 yen, and for the two months the exports were as follows:

	1912	1913	1914
Kin	50,734	72,157	79,855
= Cases	1,127	1,603	1,775
Yen	178,411	298,333	235,346

The above are the official figures, and show that the total exports of menthol and mint oil were 3,602 cases, against the private unofficial estimate of 3,100 cases for the two months.

Mint Oil.—Steady with sales of Japanese dementholised at 3*s*. 7½*d*. per lb., c.i.f. for May-June shipment, but on Wednesday 3*s*. 9*d*. c.i.f. was quoted for this position. The spot price is about 4*s*.

Morphine.—With an active demand, prices are rather firmer on the basis of 8*s*. 3*d*. per oz. net for hydrochloride powder, and 8*s*. 5*d*. net for crystals from makers. Second-hands offer at 8*s*.

Nutmegs.—West Indian at auction were fully steady, 71 packages being offered and sold.

Oils (Fixed).—*Linseed* is slightly firmer on the week, closing at 24*s.* 6*d.* for pipes and 24*s.* 9*d.* in barrels; forward is 25*s.* 9*d.* to 26*s.* 9*d.* *Coconut* is quiet at 51*s.* for Cochin and 43*s.* for Ceylon on spot. *Cotton-seed* is easier at 29*s.* 6*d.* to 29*s.* 9*d.* for crude; 29*s.* 9*d.* for refined ordinary pale and 33*s.* to 34*s.* 6*d.* for sweet refined. *Rape* steady at 31*s.* for ordinary brown crude and 33*s.* 3*d.* for English refined in casks. *Wood-oil* is quoted on spot at 29*s.* and Lagos *Palm oil* at 35*s.* spot. *Soya* in cases (Manchurian) is 25*s.* 9*d.* c.i.f. for March-April shipment, and Hull 26*s.* 3*d.* all positions. *Neats'-foot oil* is quoted 2*s.* 6*d.* to 3*s.* 10*d.* per gal.; *Lard oil*, 40*s.* to 56*s.* per cwt.; *Seal oil* 19*l.* to 27*l.* 10*s.* per tun, *Whale*, 19*l.* to 27*l.* per tun, and bright *Sperm oil* 26*l.* to 29*l.* per tun.

Olibanum.—Quiet, with small sales of reddish drop at 32*s.* 6*d.* on the spot, and siftings at from 19*s.* to 20*s.* as to quality. Good fair drop is quoted at 42*s.*

Opium.—Primary markets are, if anything, firmer, sales of 80 to 100 cases being reported by cable, and up to 14*s.* 4*d.* per lb. c.i.f. is quoted for 11½ per cent. to-day. Spot prices are from 14*s.* 9*d.* to 15*s.* Persian has had a steady business at unchanged rates.

A Smyrna advice, dated May 1, states that the sales during the previous fortnight amount to about 250 cases for export account at prices showing little fluctuation, being equal to 15*s.* per lb., c.i.f. London, for 11½-per-cent. The expectation for the new crop so far is good, but the late spring may affect it to the extent of 10 per cent. less as compared with the previous year—*i.e.*, if the weather continues favourable to the end.

A Constantinople correspondent writes on May 2 that the demand continued during the whole week, and prices are maintained in spite of the reports from the interior being favourable. We believe that the buying this week has been due to the pessimistic reports which were spread with regard to the growing crop, but which have been contradicted by the telegrams received from our Anatolian correspondents. The sales of the week were 19 cases druggists' at from 195 to 219 ptrs., 16 cases "softs" at from 245 to 255 ptrs., and 12 Malatias at from 220 to 247 ptrs. The arrivals in Constantinople amount to 3,435 cases, against 2,471, and the stock to 431 cases, against 571 cases.

A Smyrna correspondent, writing on May 1, again reports a fairly active market, with sales amounting to 69 cases at last week's prices. Holders firmly maintain the position, and to-day no eligible 11-per-cent. can be procured unless the buyer is prepared to pay 15*s.* For mixed qualities with a guarantee of 11 per cent. some shippers may be willing to accept 14*s.* 9*d.* and even 14*s.* 6*d.*, but we strongly advise buyers to pay the full price of 15*s.*, so as to ensure getting uniform selected quality, and with the best chance of finding the shipment ¼ or ½ per cent. stronger in morphine. The arrivals are 4,569 cases, against 2,374.

Orange Oil.—Reports from primary sources indicate that there is very little business doing. Prices, however, remain steady, sweet for prompt shipment offering at 8*s.* 6*d.* and later shipment at 7*s.* 11*d.* c.i.f.

Otto of Rose.—It is anticipated that prices for the new crop will be considerably lower than the last, although there is said to be very little stock left in trustworthy hands at primary sources. A considerable number of cultivators have uprooted the rose-bushes and sold them to new cultivators at better value than they would obtain if they distilled the oil. Apart from this, it is estimated that given good weather conditions the 1914 crop will be as large as last year.

Pepper.—At auction 145 bags Ceylon offered and 67 sold at from 4⅞*d.* to 5*d.* for fair; 24 bags Mangalore were bought in at 10*d.*; the private market is quiet, with sellers of fair black Singapore at 5*d.*; to arrive there are buyers of Singapore for June-August shipment at 4¾*d.* c.i.f. At auction 140 bags Muntok were bought in at 9¼*d.* for fair and 13 bags fair Ceylon at 8½*d.* The spot demand is slow, with sellers of fair Singapore at 8⅝*d.* and fair Muntok at 9 1/16*d.*; to arrive June-July shipment of Singapore has been sold at 8⅜*d.*, and Penang, for the same position, at 6⅞*d.* to 6 13/16*d.* c.i.f.

Peppermint Oil.—American tin oil remains quiet, but very firmly held at from 17*s.* 6*d.* to 18*s.* as to brand, and for H.G.H. business has been done at 20*s.* 6*d.*, which is the price for small lots at the close.

Pimento.—At auction 43 bags ordinary were bought in at 2⅛*d.* Privately, spot sellers quote 2*d.* and May-June 16*s.* 10½*d.* c.i.f.

Quicksilver is quite steady at 7*l.* from first and 7*l.* 17*s.* 6*d.* from second-hands.

Quillaia remains firm; Liverpool selling at 38*l.* per ton ex store, and for April-May shipment business has been done at 32*l.* c.i.f.; 160 bales have arrived in Liverpool.

Quinine remains unchanged at from 1*s.* 0¼*d.* to 1*s.* 0½*d.* per oz. for German sulphate in bulk, makers quoting 1*s.* 1*d.*

The landings in London during April amounted to 17,760 oz. and the deliveries to 49,984 oz., leaving a stock on April 30 of 3,218,192 oz., against 3,812,272 oz. at the corresponding date of 1913.

Rhubarb.—Sales ex auction include fair to good medium-size, round Canton at from 2*s.* 10*d.* to 3*s.* 3*d.* per lb. The value of good flat High-dried is 1*s.*, middling 11*d.*, and ordinary 10d. per lb.

Shellac is easier, with the standard TN Orange quality offering at 65*s.* and free AC Garnet at 68*s.*; May-June shipment of TN is nominal at 64*s.* c.i.f.; and for AC Garnet 64*s.* c.i.f. has been paid for this position. Futures on the week are cheaper, the sales including May at 64*s.* to 63*s.* 6*d.*, August 65*s.* 6*d.*, and October 66*s.* 6*d.*

Soda Nitrate is 3*d.* per cwt. dearer at 11*l.* for refined and 10*l.* 15*s.* for ordinary on spot. Liverpool quotes 10*l.* 15*s.* and 10*l.* 5*s.* respectively.

Sulphonal.—Prices vary considerably according to seller; 8*s.* 6*d.* per lb. will readily buy, and less for quantity.

Tartaric Acid.—It is stated that the united foreign makers have entirely withdrawn their offers, owing to the scarcity of raw material. It is also said that they hold no stocks, and that they are not in a position to offer before August; for September to the end of the year delivery the price has nominally advanced by ⅜*d.* per lb. without engagement. Market remains quite firm in London at last week's advance to 1*s.* 0¾*d.* for foreign, and English is harder at 1*s.* 1½*d.*

Turmeric.—Small sales of fair Madras finger have been made at 16*s.* per cwt. and Cochin split bulbs at 12*s.* on spot.

Turpentine shows a cumulative advance of 1*s.* per cwt. on the week, with an active demand, spot and forward, American closing at 32*s.* on spot and June-August at 32*s.* 6*d.*

Wax, Japanese, is cheaper, good squares selling at 52*s.* 6*d.* on spot; for June-July shipment sellers quote 45*s.* 9*d.* c.i.f.

Heavy Chemicals.

There is a fairly steady feeling in the heavy-chemical market, and, although the demand in some respects is rather quiet, the works are nevertheless kept very well employed. Not only is there a fair home-trade demand, but export business stands pretty well too. Prices do not show material alteration, and are mostly steady.

Sulphate of Ammonia.—There is only a meagre demand for prompt parcels, the greater interest just at present being for forward. Business on the latter account is to some extent restricted by the small discount offer by sellers for forward. Present nearest figures: London, 25-per-cent., 11*l.* 5*s.* to 11*l.* 7*s.* 6*d.*; Leith, 12*l.* 6*s.* 3*d.* to 12*l.* 7*s.* 6*d.*; Liverpool, 12*l.* 3*s.* 9*d.*; and Hull, 12*l.* 2*s.* 6*d.* Forward, 2*s.* 6*d.* less.

Barium-products keep on the steady side, with a good average demand. Blanc fixe, pure precipitated barium sulphate, in paste form, 6*l.* 10*s.* to 6*l.* 15*s.* per ton, in 8 to 9 cwt. casks. Mineral sulphate of barytes in good request, both on contract and miscellaneous account, at prices ranging from 32*s.* 6*d.* to 100*s.* per ton, in accordance with quality, quantity, and package. Chloride of barium, large or fine crystals, 6*l.* 5*s.* to 7*l.* per ton, in 9 to 10 cwt. casks. Precipitated barium carbonate, 98 to 99 per cent., 5*l.* 17*s.* 6*d.* to 6*l.* 10*s.* per ton, in 2-cwt. bags. Crude calcined sulphide of barium, 70 to 75 per cent. BaS, 5*l.* 15*s.* to 6*l.* 5*s.* per ton, in 5 to 6 cwt. casks. Hydrate of barium crystals, in 6 to 7 cwt. casks, 12*l.* 5*s.* to 13*l.* 5*s.* per ton; concentrated solid, 56 to 60 per cent. BaO, 13*l.* 10*s.* to 13*l.* 15*s.* per ton, in 6 to 7 cwt. drums; concentrated crushed, 15*l.* to 15*l.* 5*s.* per ton, in 6 to 7 cwt. casks.

Manchester Chemical Market.

May 5.

There was a fair attendance on the Chemical Exchange, but there were no movements of importance to note in heavy chemicals. Deliveries on contract account continue on the steady side. For prompt in Lancashire there is a slightly better demand reported, doubtless due to a continuance in sizing and other requirements. Evidently the course of trade, notwithstanding the remarks of the Chancellor of the Exchequer as to its uncertainty, would appear to be fairly good for some time forward. Sulphate of copper has firmed up, owing to the better feeling in the raw metal, and may be quoted 22*l.* 5*s.* to 22*l.* 7*s.* 6*d.* per ton, delivered Manchester, prompt, and about 5*s.* per ton more for forward delivery. White powdered arsenic and acetates of lime continue on a comparatively low level, with quiet demand. In coal-tar products there is a dull feeling, although creosote is firm at about 3½*d.* per gal. Sulphate of ammonia is steady at 12*l.* to 12*l.* 1*s.* 3*d.* per ton, on rails, Manchester. Pitch firm. Carbolic acid steady. Benzols for petrol purposes show little change at 1*s.* 3*d.* to 1*s.* 4*d.* per gal.

London Drug Statistics.

The following statistics are compiled from information supplied by public warehouses. They relate to the receipts and deliveries of some of the leading drugs from and into the London public warehouses for the month of April, and to the stocks on April 30, 1914:

—	April		Stocks		1914	
	Landed	Delivd.	1914	1913	Imprtd.	Delivd.
Aloes .....cs., etc.	118	165	1,082	934	650	549
" .....gourds	—	—	1,322	1,322	—	—
Anise, star .....cs.	—	—	—	—	—	—
Arrowroot ...pkgs.	1,306	767	8,992	4,349	6,823	2,910
Balsams.....cks.	16	26	151	127	70	81
Calumba .....pkgs.	138	220	629	1,924	199	836
Camphor ..... "	790	858	950	1,504	3,406	3,545
Cardamoms ... "	665	254	1,063	809	1,588	1,184
Cascara sagrada tons	—	16	234	274	32	40
Cinchona .....pkgs.	518	507	3,134	3,135	1,132	1,226
Cochineal .....bgs.	44	28	389	238	241	132
Cubebs ..... "	28	3	168	196	28	61
Dragon's-blood pkgs.	7	25	66	82	82	71
Galls..... "	—	512	2,283	4,318	539	1,387
Gums—						
Ammoniacum "	54	—	70	59	54	17
Animi ..... "	93	43	182	314	263	361
Arabic ..... "	554	535	4,754	8,090	1,165	3,385
Asafetida ..... "	6	83	1,441	2,192	403	613
Benzoin ..... "	46	106	510	702	608	679
Copal ..... "	4,511	3,828	8,137	17,918	18,544	19,140
Damar ..... "	746	686	2,825	4,122	2,409	2,708
Gamboge ..... "	24	11	66	119	39	48
Guaiacum ... "	6	—	67	31	6	2
Kauri... tons net	144	149	561	178	436	230
Kino ..... pkgs.	—	—	45	56	—	3
Mastich ..... "	—	—	13	14	2	—
Myrrh, E.I. ... "	13	23	345	417	75	106
Olibanum ..... "	39	65	822	1,361	134	181
Sandarac ..... "	149	135	288	384	370	461
Tragacanth ... "	2,241	1,188	10,239	7,016	8,194	4,683
Ipecacuanha—						
Cartagena ... "	5	3	120	28	99	48
E.I. (Johore) "	—	1	38	6	38	40
Matto Grosso "	—	46	101	69	54	102
Minas ..... "	—	1	3	64	3	38
Jalap .....bls.	73	26	187	211	98	100
Nux Vomica ...pkgs.	68	33	54	278	68	33
Oils—						
*Anise, star .....cs.	20	1	43	25	31	23
*Cassia ..... "	5	—	58	35	35	15
Castor .....pkgs.	114	94	182	192	475	456
Coconut .....tons	51	198	354	316	723	745
Olive .....pkgs.	1,003	589	2,249	2,255	2,803	2,020
Palm .....tons	—	—	56	59	—	—
Quinine .....lb.	1,110	3,124	201,137	238,267	8,684	20,620
Rhubarb .....cs.	10	47	619	3,178	142	243
Chin.Rhapont. bgs.	—	5	2,444	—	—	13
Sarsaparilla .....bls.	115	51	144	181	288	233
Senna .....pkgs.	193	499	627	1,729	764	1,909
Shellac .....cs.	5,118	2,666	101,649	94,011	21,044	13,325
Turmeric .....tons	5	52	277	401	33	210
Wax—						
Bees' .....pkgs.	465	297	1,680	1,580	1,229	1,084
Vegetable ... "	51	54	646	486	706	407

* Stocks of essential oils at Smith's Wharf and Brewer's Quay are not included.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the "Trade-marks Journal," April 22, 1914.)

"Centoids"; for photographic chemicals, etc. (1). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 359,710.

"Sulpholeum"; for chemicals (2). By the Strawson Chemical Co., Ltd., 79 Queen Victoria Street, London, E.C. 358,857.

"Grindol"; for chemicals (2 and 3). By Grindley & Co., Ltd., 21 Broomfield Street, Poplar, London, E. 358,887/8.

Label device with words "Providol Soap," etc.; for medicated soaps (3). By Providol G.m.b.H., 104 Alt-Moabit, Berlin. 358,014.

Label device with words "Laocoon Pain-Rub" ("Pain-Rub" disclaimed); for a medicine (3). By Madon, Sons & Co., 16 and 18 Abdool Reheman Street, Bombay. 357,805.

"Carmarole"; for medicinal chemicals (3). By R. A. Sweet, Carlton House, Kingsway, London, W.C. 358,333.

Device of a baby's head, with words "As Good as Gold" and "Presto Baby Powders"; for soothing and teething powders (3). By W. Davies & Co., Glasfryn, Gorwydd Road, Gowerton, Glamorgan. 358,819.

"Litra" for a cancer-medicine (3). By Florence A. Powlesland, 51 Southampton Row, Holborn, London, W.C. 359,501.

"Nobial"; for pharmaceutical preparations (3). By P. Rengniez, 56 Rue de Passy, Paris. 359,640.

Label with words "Tuberkulin 'Rosenbach'" and facsimile signature "Professor Dr. F. J. Rosenbach" ("Rosenbach" disclaimed); for tuberculin (11). By F. J. Rosenbach, 15 Theaterstrasse, Gottingen, Germany. 356,806.

"Combat"; for respirators (11). By Wallach Bros., Ltd., 16 Finsbury Square, London, E.C. 359,730.

"Parex"; for waterproofed materials (27 and 31). By S. Maw, Son & Sons, 7-12 Aldersgate Street, London, E.C. 358,744/5.

Label device with words "Salutis Soap," etc.; for perfumed toilet-soap (48). By Chiozza & Turchi, Corso Giovecca 110, Ferrara, Italy. 350,095.

"Baramol" and "Orathol"; for hair-preparations (48). By Tokalon, 20 West Twenty-second Street, New York, U.S.A. 356,894/902.

"Tokalon"; for perfumery, etc. By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 358,397.

"Le Beau Monde"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, London, E. 359,778.

(From the "Trade-marks Journal," April 29, 1914.)

"Sunbow"; for goods (2 and 50). By Medel Home Specialities, Ltd., 22 Wellington Road, Battersea, London, S.W. 352,118/120.

"Yohimbine"; for a veterinary chemical (2). By E. Heilmann, Am Heideweg, Guestrow, Germany. 359,123.

"Keystone"; for chemicals (2). By the Strawson Chemical Co., Ltd., 79 Queen Victoria Street, London, E.C. 359,827.

"Arthroids"; for a medicine (3). By Stephen Matthews & Co., Ltd., 19-21 Farringdon Street, London, E.C. 358,540.

"Urn Brand," with picture of same; for medicated soap and glycerin (3). By Hodgson & Simpson, Ltd., 17 Highfield Street, Liverpool. 358,603.

"Salosal"; for a medicine (3). By Beatrice Jordan-Boyd, 255 Gray's Inn Road, London, W.C. 359,407.

"Albumophos"; for a medicated food (3). By J. G. Nicholson, 15 Hanover Street, Edinburgh. 359,488.

"Tophanol"; for all goods (3). By Chemische Fabrik auf Actien (vorm. E. Schering), 170-171 Müllerstrasse, Berlin. 359,563.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Sterilisation of Milk.

"Fiat Lux" wrote last week (p. 63), in reply to remarks by "Xrayser II.," who now writes as follows, and in excess of the allotted space (p. 47):

Sterilisation of milk sounds all right, but in practice it is not quite so satisfactory as your correspondent would like to make out. It may be that he has had a peculiarly unfortunate experience of "dirty milk"; I am certain it is many long years since I saw a sample of bad milk. I have also had not a little experience in the bringing-up of children, and have still a lively interest in a number of grandchildren, so that I do not speak without knowledge. "Fiat Lux" admits that boiled milk is a bad food for children—a fact that everyone knows. Why is boiled milk bad? Why does it tend to constipation? I am not sure that anyone knows; but this much is known—that a heat sufficient to kill the tubercle bacillus also destroys the enzymes naturally present in the milk, and such milk is much less digestible, more prone to produce constipation, and much more liable to become contaminated with germs than natural milk. I had thought that the sterilisation fad was nearly dead, but it seems I am wrong. Experienced medical men do not now recommend sterilisation as was done twenty years ago. It is quite right to sterilise solutions that are to be injected hypodermically, but the notion that we must sterilise everything we swallow is not only silly, but an actually harmful doctrine.

The Pharmaceutical Council Election.

Sir,—May I be permitted to say a few words in reply to "Incertus" in your last issue? It is not so much a question of being known or not known as of finance; not every man can see his way clear to spend 50*l.* or 60*l.* to prove his fitness to resist a dose of Bloomsbury soothing-cordial. The initial expense may seem small to many, but it has a great deterring effect on those who have more ability than pence. Credit must be given to the self-denying ordinance of the old members who, by resting on what they have done or not done, thereby make attack much easier. The Assistants Bill will make all the Council go through an ordeal of fire which may purge away many of the non-resisting elements. It is very unsatisfactory, and only the joy that it will be among the massacred innocents next August could justify it being kept in the background now. Whether to vote for the old or new men is difficult to answer. I have followed some such method as "Incertus" for twenty years, but not with encouraging results. I think the better plan is to ascertain what work a candidate has been doing locally. Is he a worker or a passenger? If we settled that and made the Council the resultant force of pharmacy, members would not have so much cause to complain. The glamour of a few active spirits has blinded us into thinking that the Council is doing something at last, but should not the glory be to those outstanding personalities? One thing more may I say?—that is, my own difficulties have forced on my mind that the separation of Great Britain into electoral areas is an urgent need. Territorialism for the Association's executive is deemed necessary; then why not for the Council? Proportional representation is more to be desired than any Assistants Bill. The present way of muddling along and compelling a man to appeal to 7,000 strangers of three distinct nationalities to take him on trust is worthy of the dark ages. It is not democratic, and no assertion that it is can make it so. Ability with limited means can never be used under the present system, hence we have the Council so often the butt instead of the constructive power desired. No wonder pharmacy tarried so long in the wilderness. Yours faithfully,

16 Priory Gardens, N. Herbert Skinner.

Wholesalers and Top-hats.

Sir,—Many provincial chemists take a trip to London once or twice a year, and go round the wholesale houses to see the "latest," and as one of these provincials, this is my experience. I go into a place; no one takes the slightest notice of me; there I stand waiting and waiting. It is nobody's business to ask me what I want or what I am doing there. But go into the same place with the magical top-hat on, so beloved by Londoners—that is the passport for prompt attention and every courtesy. I am speaking of first-class houses, where I have an account, which is always promptly paid, and only this week I heard of a man walking off the premises of a well-known firm for the same reason, and they lost a good order. You, Sir, give us retailers good advice how to get the most out of our businesses; please give us your support to get this anomaly removed, as we go to London to spend good money, not to waste our precious time and have our tempers tried.

Yours faithfully,

Country Cousin. (214/16.)

Birmingham Insurance Matters.

Sir,—How much longer are the Birmingham chemists to go on supplying insured patients with drugs without any payment? In my case the payments on account exactly balance the account up to November, so that we are now six months in arrears. Surely there are enough men in the trade who are not afraid to raise a protest against this gross mismanagement of which we are being made the victims in Birmingham. Yours,

Panel Chemist. (215/19.)

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Tank Development.

Veritas (205/73) would like to hear the experience of chemists who develop customers' photographic films, especially in regard to the best form of tank and developer.

To South London Chemists.

We have received a note (214/72) asking us to warn South London chemists not to supply menthol snuff containing cocaine to a tall youth (6 ft. 2 in.) of eighteen. We do not suppose that any chemist would supply the snuff to casual customers, but this warning may be of service.

Colouring Corn-paint.

"I am not sure if ext. bellad. fol. would answer so well as ext. cannab. ind. for making corn-paint. The former is an aqueous extract and the latter spirituous, and the solubility of the colouring-matter in ether has to be considered. Why does not some wholesale house put out an ethereal solution of chlorophyll for the purpose of colouring such preparations? It would sell."—*An Old Hand* (212/26).

Rendering Insurance Accounts.

"The letter 'Wake Up, Pharmacists' (105/1) makes me wonder how the London pharmacists render their N.H.I. accounts. In the West Riding of Yorkshire the Committee provide us with forms on which we have to fill in the number of prescriptions at each price from ½*d.* to 1*s.* each. Above 1*s.* we have to fill in both number and values. Naturally, we sort out the prices into heaps and count up. Surely, having got thus far, the pinning or tying up of the bundles is no great thing 'to make a song about.' Apart from this, although our W.R. Tariff is lower than many, I do not agree that the remuneration (if received in full) is so very inadequate."—*J. E. Jones* (Mexborough).

A Window Showcard.

"The suggestion to face showcards with glass and finish in *passe-partout* style is very good. A supply of well-written showcards represents a fair outlay of cash, which makes them worth preserving. The main objection to glass

for this purpose is its weight. Now that there is so much heavy motor traffic going along the roads, it is necessary to place things fairly solidly when window-dressing. A glass-faced card in falling is likely to cause a fair amount of damage. The vibration caused by heavy traffic is quite alarming. Fancy a steel-tyred, chain-driven motor brick-wagon going along a main road! These things ought to be on the railway. Many firms who do much showcard advertising now send out cards faced with celluloid. This gets over the weight difficulty, but presents another one where can the ordinary chemist buy celluloid suitable for the purpose?"—*C. W. Kemsey-Bourne.*

Luminous Watch-hands.

Messrs. Thos. Tyrer & Co., Ltd., referring to the reply we gave to "R. L. H." (169/22) in the *C. & D.*, May 2, p. 64, state that there is a new process employed by which the watch is not necessarily exposed to light beforehand, as is the case with the ordinary luminous paint, an article being now used largely in Switzerland for watches and clocks by which the hands and figures are rendered luminous in the dark without any trouble about exposure to light. This is done by the use of radio-active zinc sulphide, which, however, is very expensive, as a gram costs probably 5*l.* or 6*l.*; but this is mixed with a special varnish, and the quantity used is, of course, very small.

[We have since found in a French patent particulars of one of the methods employed. The figures on a dial or other objects which are required to be self-luminous are formed hollow, and the hollow spaces are filled with a material, such as zinc sulphide, upon which a layer of gum is superposed and a radio-active substance sprinkled thereon. The radio-active substance renders the zinc sulphide uniformly luminous, even when very small quantities are employed.—Ed.]

Insurance Dispensing.—Net Profits.

A Welsh Panel Chemist (212/30), in sending the subjoined statement, says: "This may be some guidance to 'Nopir' (199/26), in the *C. & D.*, of May 2. I allow 15 per cent. on total due for working expenses. This may be too high, because my actual working expenses are 25 per cent. on total turnover after allowing salary for myself."

Insurance Dispensing Report, 1913.

Amounts after Checking at Bloomsbury Square.

	£	s.	d.
April 1913 ...	37	6	8½
July 1913 ...	50	10	0
October 1913 ...	39	10	5
January 1914 ...	34	15	9
	£162	2	11

Total Paid by Local Committee, being 87½ per cent. on Year's Working.

	£	s.	d.
April	37	6	8
July	37	17	6
October	39	10	5
January	27	15	7
	£142	10	2

Cost of Prescriptions after Deducting Fees and 25 per Cent. on Tariff Prices.

	£	s.	d.
April	18	11	4
July	29	0	6
October	19	5	0
January	17	4	2
	£84	1	0

	£	s.	d.
Gross profit	£58	9	2
Less 15 per cent. working expenses on 162*l.*	24	6	0
Net profit	£34	3	2

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

Licence (215/10).—Off liquor-licences are granted to the licensee in respect to premises. The licensee is entitled to apply for transfer of the licence to other premises, but the owner of the premises may, if he so desire, object to the transfer. The Justices have, however, full discretion in the matter.

Pharmacist (213/56).—Carbolic oil may be made of any strength (between 1 in 20 and 1 in 40 are usual, the former most common) with any suitable oil, but olive oil is most commonly used (see "Pharmaceutical Formulas"); but there is no official standard, therefore no obligation to adopt any particular formula.

Managing Director (204/21).—The reference in Section 3 of the Poisons and Pharmacy Act, 1908, to "partnerships" in respect to Scotland only, but the reference to "companies" applies to those in England, Scotland, and Wales. Such partnerships and companies may not use the title "Pharmacist." See the paragraph "Pharmacists" on p. 475 of the *C. & D. Diary*, and the paragraph "Titles" on p. 476.

W. W. (203/21).—Assistants' Annual Holidays.—You are labouring under a misapprehension in supposing that all assistants are entitled under the Shops Act, 1912, to fourteen days' holiday annually. Section 11 of the Act provides that in holiday-resorts where an order for suspending the weekly half-holiday is in force the requirement that on one day in each week a shop-assistant shall not be employed after half-past one shall not apply to assistants in such shops who receive annual holidays of not less than two consecutive weeks with full pay. All this information is given in the *C. & D. Diary*, pp. 491-494. We have no copies of it for sale.

B. A. J. (210/12). If a chemist prescribes and supplies to a woman an emmenagogic mixture, he takes the risk of incurring any penalty provided in the Offences to the Persons Act in respect to supplying pregnant women with a poison or any other noxious thing that is intended to be unlawfully used or employed with the intent to procure miscarriage. It is well recognised that aloes-and iron mixture is very commonly used to expedite menstruation when pregnancy does not exist, and it has been held that such a mixture is not a noxious thing within the meaning of the Act. Nevertheless, the sale of such mixtures to women who are pregnant occasionally brings the vendors into court, and we cannot suggest a course by which you could avoid that risk, except to interpose a doctor between you and the customer, and your experience proves that this is not necessary.

East (62/25).—Shops Act, 1912.—If there is no half-day closing order in respect to chemists' shops in your district, you will be quite in order in dispensing Insurance prescriptions during any closing-hour after 1 P.M. on your early-closing day. The notice-cards that we sell should be exhibited during that time, even although you do dispensing only. If there be a closing order as regards chemists' shops, you may not open at all after 1 P.M. except to admit a customer in order to furnish anything urgently required in a case of illness. Insurance prescriptions would no doubt come under that provision, but it has been held by one magistrate that the urgency must be immediate and real. Medicines are not usually asked for unless they are required immediately, and in cases where there is no special closing order as regards chemists' shops we do not think the authorities would insist upon every prescription dispensed during closing-hours being marked "Urgent." In our opinion, the terms of the Shops Act are intended to cover such cases as insured persons consulting a panel doctor and getting from him a prescription to be dispensed by a panel chemist immediately. It is permissible to sell any medicine or medical and surgical appliance during closing-hours, special exemption for this being provided by the Act, and it remains operative as long as the majority of chemists do not apply to have the exemption suspended in their area.

Insurance Dispensing Queries.

Warwickshire.—*B. A. J.* (210/12).—No. 12 Waterloo Place, Leamington, is the address of the Clerk to the Warwickshire Insurance Committee.

Tidman's Sea-salt.—*T. W. H.* (199/56).—You must ascertain from your local Insurance authority if this may be supplied as part of Medical Benefit. If allowed, follow the usual practice for proprietary articles, and add 33 per cent. to cost.

Size of Mixture.—*A Scottish Panel Chemist* (214/18) asks whether the following repeat mixture should be dispensed in two 12-oz. bottles, or as written, and what would be the dispensing-fee for 24 oz.:

Tr. nuc. vom.	ʒss.
Sodii bicarb.	ʒij.
Spt. amm. arom.	ʒss.
Spt. chlorof.	ʒij.
Aq. menth. pip. ad	℥xij.—S.

Sig.: ʒss. 3 d.s., etc.

Rept. mist. tales ℥xxiv. 29/4/14.

Our correspondent adds: "Twelve-ounce mixtures are becoming quite common, but surely the limit has been reached as to quantity." [We regard the doctor's instructions here to be: "Send 24 oz. of the previous mixture." Whether the chemist dispenses it in one bottle or two does not affect the dispensing-fee, which is 3*d.* for 8 oz. or more.]

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

H. L. M. (197/27).—Rubber Solvents.—These are coal-tar naphtha, petroleum spirit, turpentine, and carbon bisulphide. The rubber is first "masticated," this process converting it into a pulpy condition, in which state it is more easily acted upon by solvents.

B. C. J. (209/16).—Evil in Sheep is simply aphtha, or thrush, and is of two kinds benign or simple and malignant. The simple is most common in lambs, but affects older animals as well. In the ewe it is supposed to be due to a derangement of the blood system and indigestion; in lambs it is also traced to these causes. It is a mild eruptive fever, accompanied by swollen lips and nose, intense salivation, smacking of the lips, redness and often ulceration of the tongue, diarrhœa, no desire to suck, and gradual loss of condition. The treatment in lambs is to change the mother's diet; give sod. hyposulph. ʒj.-ʒij or potass. nit. ℈j. to ℈ij. daily in food. Dress the sores with carbolic lotion (1 in 20) or alum lotion, and apply borax and glycerin or ung. boric. When older animals are affected give laxative medicines, such as Epsom salts. The malignant type is highly infectious, and arises from derangement of the blood system of the ewe, and there is ulceration of the teats, udder, inside of thighs, and other parts of the body. Lambs sucking from the affected teats show extensive ulceration of the gums, nose, lips, and tongue, and in many cases there is blackness and loss of the teeth. The treatment is to change the pasture, give nourishing food, sodii hyposulph. ʒj. daily, dress the sores as in the benign kind, draw off the milk, and give the lamb artificial food. It may be necessary to dress the ulcers with a caustic, such as argent. nitras, zinci chlorid., or tr. ferr. perchlor., according to the extent of the ulceration.

C. T. N. (203/74).—(1) Liquid Metal-polish.—See *C. & D.*, September 27, 1913, p. 104, and November 29, 1913, p. 88. (2) Incense for Use in Churches.—The following is the recipe actually used in a London church:

Gum olibanum,	
Gum thus,	
Gum benzoin,	
Balsam of tolu, of each	4 oz.
Storax	2 oz.

Break up small and mix.

Another formula is:

Gum olibanum	10 oz.
Gum benzoin	4 oz.
Storax	1 oz.
Cascarilla-bark	1 oz.

Mix.

J. N. K. (Zeitoun) (211/50).—The expression "ung. hydrargyri oxidi acidi" refers to red-precipitate ointment. The red oxide of mercury was formerly known as the nitric oxide of mercury.

T. R. (Panama) (203/62).—Newer Remedies.—A list of new remedies is given in "The Art of Dispensing" (Office of the *C. & D.*, 6*s.*), but since 1909 we have given in *The Chemist and Druggist Diary* each year particulars of new remedies introduced during the year. This is the most complete record of the latest medicaments introduced into medicine. In the 1895 *Diary* a "Dictionary of New Remedies" was included. "The Druggists' Circular," 100 William Street, New York, publish "Modern Materia Medica" ($1), which would also be useful, and there are other compilations of the same kind in German and French.

C. R. K. (204/9).—Metal-cleaning Powder.—Your sample appears to be a particularly white sample of kieselguhr, but it would be, we think, too harsh for cleaning silver, for which a softer powder, such as prepared chalk, is better suited.

H. S. (208/5).—Sepia-toning Photographic Prints.—Some time ago we published all the processes known at that time for toning bromide prints, but there is nothing in the articles corresponding to the sample you send.

W. W. (201/60).—(1) Flake White is a variety of white-lead in the form of flakes or scales. The term is also applied to basic bismuth nitrate. (2) Ink for Writing on Zinc Labels.—The following are the varieties of horticultural inks:

(*a*) Liq. antim. chlor., B.P.

(*b*) Platinum chloride	gr. v.
Distilled water	ʒj.

(*c*) Ammonium chloride,	
Verdigris,	
Drop-black, of each	1 oz.
Water	10 oz.

T. E. (204/23).—Dental Anæsthetic.—The best strength of cocaine-hydrochloride solution for local anæsthesia in tooth-extraction is 1 per cent. Of this 15 to 20 minims gives the best results. The specimen you send has the odour of oil of wintergreen, and is probably prepared by dissolving the cocaine in water which has been flavoured with the oil and filtered bright. Cocaine solutions are always best freshly made.

F. C. (212/72).—Worms in Horses.—Beyond the presence of a trace of copper, we are unable to proceed with the identification of the South African worm-medicine.

J. G. (Brisbane) (205/27).—Composition Tops for Corks.—We cannot give you definite information on this subject on account of the wide range of substances employed. These vary from compounds of the nature of linoleum to shellac and vulcanisable materials. Some compositions are used which contain casein or gelatin and cork-powder rendered insoluble by means of formaldehyde or potassium bichromate. The moulding is generally a matter of hydraulic presses, with provision for heating the moulds in the case of vulcanite materials.

Alpha (201/77).—We cannot undertake to search for scheduled poison in the sample you send of pig-powders.

R. T. L. (216/54).—Veterinary Lotion.—This appears to be liquor calcis sulphuratæ, or Vleminck's solution, which is prepared as follows:

Slaked lime	ʒv.
Sublimed sulphur	ʒviij.
Water	℥lvj.

Add the mixed powders to the water, boil down to 32 oz., strain, and bottle. Decant as required.

Emulsol (201/69).—Petroleum Emulsion.—The following is adapted from "Pharmaceutical Formulas":

Paraffini liquidi, B.P.	ʒxxiv.
Pulv. acaciæ	ʒvj.
Pulv. tragacanth.	ʒj.
Tr. quillaiæ	ʒij.
Elixir glusidi	ʒss.
Ess. amygdal.	♏xlv.
Aquam ad	℥lx.

W. N. (210/24).—Removing Scratches from Glass.—The two methods are (1) by polishing with rouge, and (2) by the use of hydrofluoric acid. The first process consists in rubbing the scratched glass with jewellers' rouge on a piece of felt-covered cork, and is a tedious one. The second method dissolves away the roughened surface. The acid is diluted with water, but the exact dilution varies with the glass, and the glass requires to be in the horizontal position, so that in the case of scratched windows this is not a practical process.

F. C. W. (209/62).—Tooth-powder.—The peculiarity of the tooth-powder you send is the flavour. The basis is precipitated chalk with a small quantity of soap, the flavouring being apparently menthol with a small proportion of lavender oil. You do not say the source of the sample.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," May 14, 1864.

Atoms.

On Friday week a very important lecture, on the Atomicity of certain of the Metals, was delivered by Professor Williamson before a crowded audience, in which he showed the reasons that have induced Canizzaro and others to double the atomic numbers of nearly twenty of the metals, including the calcium group, iron, zinc, copper, and several others. The lecture is too important to dismiss in a paragraph, giving as it did the first popular account of the latest development of modern theoretical chemistry. In an early number we shall therefore give a more detailed notice of it.

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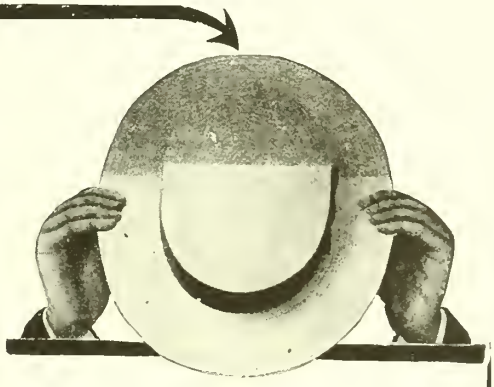

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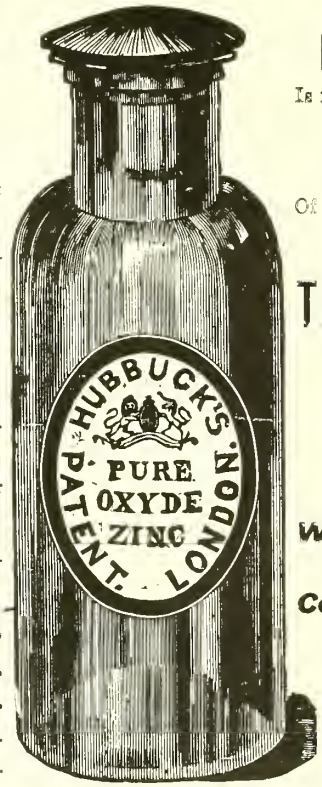

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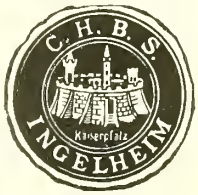

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The Heart Tonic Unit Standard was adopted by Parke, Davis & Co. in 1909, and this standard has since appeared on the labels of their principal Digitalis and Strophanthus preparations.

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The deterioration of preparations of Digitalis was conclusively demonstrated in Parke, Davis and Co.'s Laboratory in 1910. Since that date the following notice has appeared in their price list:—"Since preparations of Digitalis are liable to gradual deterioration they should not be purchased in quantity larger than will be used in one year."

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See pages 5 to 9.

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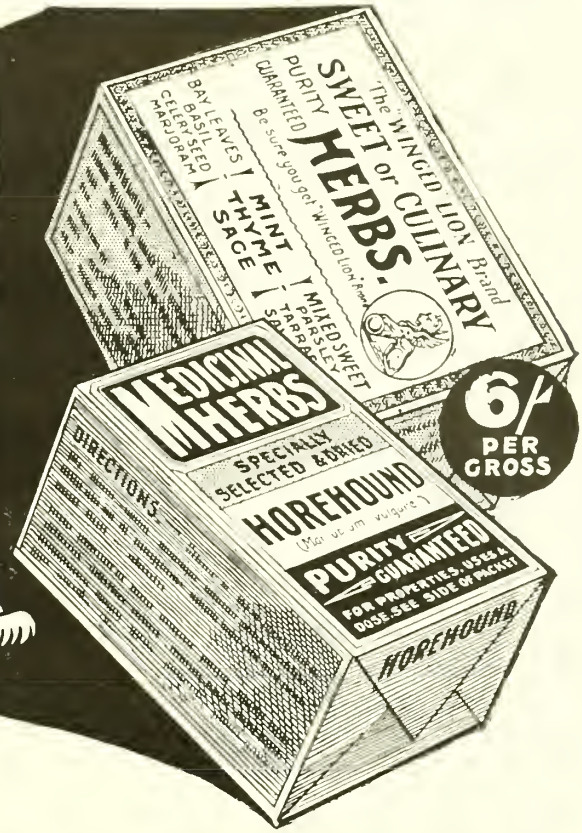

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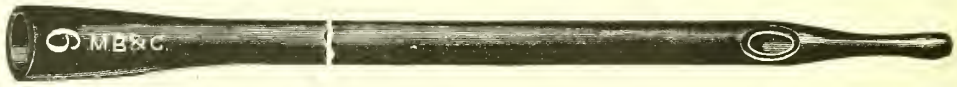

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*Acet. Ipecac. B.P., 7 lbs. @ 1/5 lb.
*Acid. Scillæ, P.B. 7 lbs. @ 3d. lb.
*Acid. Acet. Glacial., 99%, Carboys, 160 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 7d. lb; 6 lbs. @ 8d. lb.
,, Acetylo-Salicyl., 1 cwt. @ 1/10½ lb.; 56 lbs. @ 1/11 lb.; 7 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
,, Carbol. Xtls., 39/40; 2½ cwt. drums @ 4¾d. lb.; 56 lbs. @ 5d. lb.; 10 lb. Tins @ 6/- each; 36 1-lb. Bots. @ 9½d. lb.; Single Bots. @ 1/- lb.: Detached Cryst. 10 lb. Tins @ 8/- each. 1 lb. @ 1/2 lb.; Crude Black, 45 gall. casks @ 1/- gall.; 5 gall. drums @ 1/4 gall.; 1 gall. tins @ 1/6 each.
,, Diethylbarbituric, 16 oz. @ 16/- lb.; 1 oz. @ 1/4 oz.
*,, Hydrobrom., Dil. P.B., 6 lbs. @ 7½d. lb.
*,, Hydrocyan. P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1-oz. Vials @ 3/6 doz.
*,, Phosph. Dil., B.P., 7 lbs. @ 4½d. lb.
,, Salicyl. pulv. 7 lbs. @ 1/1 lb.; pbys. pure, 1 lb. @ 2/11 lb.
,, Tart., cryst. or pulv. B.P., 1885, 1 cwt. @ 1/1 lb.; 7 lbs. @ 1/2 lb.; parv. ¼d. lb. extra.
Adeps Benz., B.P., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.
Aloes Barb., English ground, 28 lbs. @ 84/- cwt.; 7 lbs. @ 10d. lb.
Ammon. Brom., P.B., 1 cwt. @ 2/1½ lb.; 7 lbs. @ 2/3½ lb.
Ammon. Carb. lump, 3 cwt. @ 4d. lb.; 28 lbs. @ 5¼d. lb.; 7 lbs. @ 5¾d. lb.; powder, ¼d. lb. extra.
Amyli Pulv. 10 cwt. @ 10/6 cwt.; 2½ cwt. @ 13/- cwt.; 1 cwt. @ 15/- cwt.
*Aqua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.
* ,, Anisi Conc. 1-40, 1 lb. @ 3/1 lb.
* ,, Cinnam. Conc. 1-40, 1 lb. @ 3/4 lb.
* ,, Aurant. Trip., 53 lbs. for 17/6; 6 lbs. @ 7d. lb.
* ,, Aurant. Conc., 1-40, 1 lb. @ 6/1 lb.
* ,, Rosæ Trip., 53 lbs. for 22/6; 6 lbs. @ 7d. lb.
* ,, Rosæ Conc. 1-40, 1 lb. @ 7/- lb.
* ,, Samb. Trip., 53 lbs. for 23/6; 6 lbs. @ 8d. lb.
* ,, Samb. Conc., 1-40, 1 lb. @ 6/1 lb.
* ,, Laurocerasi, 53 lbs. for 20/-; 6 lbs. @ 7d. lb.
* ,, Menth. Pip. Conc., 1-40, 1 lb. @ 3/- lb.

Bismuth, P.B., Carb., 28 lbs. @ 8/8 lb.; 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit. 1/- lb. less.

Calcii Carb. Præcip., 5 cwt. @ 13/- cwt.; 1 cwt. @ 16/- cwt.; 28 lbs. @ 21/- cwt.
Camphor, English Flowers, "not artificial," 5 lbs. @ 2/- lb.; ½ oz. 7 lbs. @ 2/- lb.
Cetaceum, No. 1, fine white, 64 lbs. @ 11½d. lb.; 7 lbs. @ 1/1 lb.; powder, 7 lbs. @ 1/6 lb.
*Chloroform, pure, B.P., 12 8-lbs. @ 1/6 lb.; 8 lbs. @ 1/7½ lb.; 6 1-lb. bots. @ 1/9½ lb.
Cocaine Hydrochlor., B.P., 25 ozs. @ 4/2 oz.; 4 ozs. @ 4/8 oz.; 1 oz. @ 5/6 oz.
Codeina, 1 oz. @ 12/5 oz.; Pbosph., 1 oz. @ 9/8 oz.; Hydrochlor. or Sulph., 1 oz. @ 10/9 oz.
Cream Tartar, 98% powder, 1 cwt. @ 99/- cwt.; 7 lbs. @ 11½d. lb.
Cubebæ, English Ground, 7 lbs. @ 1/11 lb.

Emulsio Ol. Morrhuæ, 5 lbs. @ 11d. lb.
Ess. Limonis (oil), original coppers, 12 lbs. @ 8/- lb.; 6 1-lb. bots. @ 9/- lb.; not guaranteed absolutely pure.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/0½ lb.; 10 lbs. @ 1/2 lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.
*Ext. Ipecac. Liq., P.B., 5 lbs. @ 13/6 lb.; 1 lb. @ 14/6 lb.

Glycerin. Opt. D.D., 1.260 P.B., 1 cwt. @ 100/- cwt.; 56 lbs. @ 101/- cwt.; 12 lbs. @ 1/1 lb.

Hydrargyrum, P.B., 75-lb. bottle @ £7/2/6; 10 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.; Ammon., 28 lbs. @ 3/1 lb.; c. Creta, 28 lbs. @ 1/5 lb.; Iodid. Rub. 28 lbs. @ 11/3 lb.; Oxid. Rub., 28 lbs. @ 3/1 lb.; Perchlor., Lump. 28 lbs. @ 2/4½ lb.; Subchlor., 28 lbs. @ 2/10 lb.; Sulph. c. Sulph., 28 lbs. @ 2/6 lb.; 7-lb. quantities 1d. lb. extra, 3-lb. quantities, 2d. lb. extra, 1-lb. quantities 3d. lb. extra.

Ichthyol Ammon. 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.; chemical equivalent: Ammon. Ichthosulphonas, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Bucbu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
* ,, Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* ,, Caryoph. Conc., 1 to 7, 6 lbs. @ 1/- lb.
* ,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
* ,, Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* ,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
* ,, Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* ,, Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* ,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* ,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/4 lb.
* ,, Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
Iodoform Pulv. B.P., 7 lbs. @ 16/6 lb.; 3 lbs. @ 16/10 lb.; 1 lb. @ 17/1 lb.
Iodum resub. B.P., 7 lbs. @ 14/4 lb.; 1 lb. @ 14/10 lb.

*Lin. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb.
* ,, Bellad. Meth., 5 lbs. @ 1/5 lb.; 1 lb. @ 1/8 lb.
,, Camph P.B., 40 lbs. @ 11d. lb.; 9 lbs. @ [1/- lb.
,, Sapo Meth., 9 lbs. @ 7d. lb.
Linseed c. Oil, Crushed, 3 cwt. @ 17/6 cwt.; 1 cwt. @ 18/6 cwt.

*Mist. Sennæ Comp. B.P., 20 lbs. @ 6½d. lb.; 6 lbs. @ 7½d. lb.
Morphinæ Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 8/1 oz.; 16 oz. @ 8/3 oz., 8 oz. @ 8/6 oz.; 1 oz. @ 9/6 oz.; Pur. Præcip. Bimcconate or Tart. 1 oz. @ 11/6 oz.

Naphthalene, Candles or Balls, 1 cwt. @ 13/6 cwt.; 56 lbs. @ 16/- cwt.; 28 lbs. @ 18/- cwt.

Ol. Amygdal. Essent. Artificial, free from Chlorine, 5 lbs. @ 3/- lb.; 1 lb. @ 3/9 lb.
Ol. Anethi Ang. B.P., 1 lb. @ 14/6 lb.
Ol. Aurant., 12 lbs. @ 12/- lb.; 1 lb. @ 12/6 lb.; not guaranteed absolutely pure.
Ol. Cajuput., B.P., 21½ oz. bots. @ 3/- lb.
Ol. Caryopb. Ang., B.P., 9 lbs. @ 4/3 lb.; 4½ lbs. @ 4/5 lb.
Ol. Eucalypt., B.P., 1 cwt. @ 1/4½ lb.; 28 lbs. @ 1/5½ lb.; 9 lbs. @ 1/7 lb.
Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc., 1 lb. @ 12/6 lb.; 4 ozs. @ 15/- lb.
Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/8 lb.; 1 lb. @ 4/1 lb.; Ligne Exot., 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
Ol. Lavand. ab Flor., 5 lbs. @ 13/- lb.; 1 lb. @ 13/6 lb.
Ol. Menth. Pip. English, 5 lbs. @ 32/- lb.; 1 lb. @ 33/6 lb.; Hotchkiss original bots., 21 oz. each @ 22/- lb.; 6 bots. @ 21/6 lb.; 18 bots. @ 20/6 lb.; American, 20 lbs. @ 18/- lb.; 4½ lbs. @ 18/9 lb.; 1 lb. @ 19/6 lb.
Ol. Myristicæ, 7 lbs. @ 2/10 lb.; 1 lb. @ 3/2 lb.
Ol. Nucis Pallid., 45 galls. @ 3/8 gall.; 2 gall. tins @ 4/6 per gall.
Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. Barrels @ 5/- gall.; 2-gall. tins @ 5/9 gall.; fine cream, 9 lb. tins @ 7/2 each.
Opium Turc. B.P., 14 lbs. @ 15/6 lb.; 3 lbs. @ 16/6 lb.; 1 lb. @ 17/2 lb.; powder, 6d. lb. extra.

Phenacetin, P.B., pulv., 1 cwt. @ 2/11 lb.; 7 lbs. @ 3/1 lb.; 1 lb. @ 3/4 lb.
Phenazone, P.B., 7 lbs. @ 6/11 lb.; 21 lb. @ 7/6 lb.
Phenolphthalein, 7 lbs. @ 5/6 lb.; 1 lb. @ 5/- lb.
Potass. Acetas. Gran., P.B., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.
Potas. Bicarb. Pulv., 1 cwt. @ 32/6 cwt.; 7 lbs. @ 4d. lb.
Potass. Brom. P.B., 1 cwt. @ 1/7 lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Potass. Chlor. Pulv., 1 cwt. @ 4d. lb.; 7 lbs. @ 5d. lb.
Potass. Cit., B.P., 7 lbs. @ 2/6 lb.
Potass. Metabisulph., 1 cwt. @ 35/6 cwt.; 7 lbs. @ 6d. lb.
Potass. Iod., P.B., 1 cwt. @ 11/8 lb.; 14 lbs. @ 11/11 lb.; 3 lbs. @ 12/- lb.
Potass. Permang., Cryst., 1 cwt. @ 40/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.

Quininæ Sulph., B.P., 100 oz. @ 1/0¾ oz.; 25 oz. @ 1/2 oz.; 10 oz. @ 1/2¾ oz.

Rad. Jalap, English Ground, 28 lbs. @ 1/3½ lb.; 7 lbs. @ 1/4½ lb.
Rad. Rhei, E.I., Englisb Ground, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.

Sal. Acetos., 1 cwt. @ 5½d. lb.; 56 lbs. @ 6¼d. lb.; 7 lbs. @ 7d. lb.
Salicinum, B.P., 1 lb. @ 16/6 lb.
Salol, B.P., 7 lbs. @ 2/0½ lb.; 1 lb. @ 2/4 lb.
Sang. Draconis, pulv., English ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/0½ lb.
Santonine, P.B., 7 lbs. @ 116/6 lb.; 1 lb. @ 119/- lb.
Sapo Cast. Alb., 10 cwt. @ 28/6 cwt.; 2 cwt. @ 30/- cwt.; 7 lbs @ 4d.; pulv., 1 cwt. @ 65/- cwt.; 56 lbs. @ 63/- cwt.; 7 lbs. @ 8d. lb.; Animal pulv., 1 cwt. @ 70/- cwt.; 56 lbs. @ 72/- cwt.; 7 lbs. @ 9d. lb.
Shellac (Orange) 1½ cwt. @ 82/- cwt.; 7 lbs. @ 10½d. lb.
Soda Cit., B.P., 3 lbs. @ 2/11½ lb.
Sodii Salicyl. Pulv., 7 lbs. @ 1/5 lb.; pbys. pur. 28 lbs. @ 2/1 lb.; 1 lb. @ 2/4 lb.
Sodii Bromid., P.B., 1 cwt. @ 1/11½ lb.; 7 lbs. @ 2/1½ lb.
Strontiæ Bromid., 1 cwt. @ 1/8½ lb.; 7 lbs. @ 1/11 lb.; 1 lb. @ 2/2 lb.
Strychnina cryst. B.P., 25 ozs. @ 1/7½ oz.; 1 oz. @ 2/- oz.; Hydrochlor. and Sulphate, 2d. oz. less.
Sulphonal, P.B., 1 lb. @ 9/6 lb.
*Syr. Aurant, P.B., 7 lbs. @ 9½d. lb.
* ,, Easton, B.P., 7 lbs. @ 1/0½ lb.
* ,, Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.
* ,, Ferri Pbosph. Co., 7 lbs. @ 5½d. lb.
* ,, Hypophosph. Co. B.P.C., 7 lbs. @ 9½d. lb.
* ,, Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
* ,, Rhamni, 7 lbs. @ 10½d. lb.
* ,, Rhei, P.B., 7 lbs. @ 8d. lb.
* ,, Scillæ, P.B., 7 lbs. @ 5d. lb.
* ,, Sennæ, P.B., 7 lbs. @ 8½d. lb.
* ,, Tolut., P.B., 7 lbs. @ 8½d. lb.

Thymol, 7 lbs. @ 7/8 lb.; 1 lb. @ 8/6 lb.
*Tinct. Opii., B.P. 5 lbs. @ 3/2 lb.; 4 ozs. @ 2/4 lb.; bond, @ 2/4 lb.
Turpentine (Best American), 1 gal. tins @ 3/10 each.

Ung. Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 2/10 lb.
,, Zinci Oxid. Benz., B.P., 28 lbs. @ 8½d. lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

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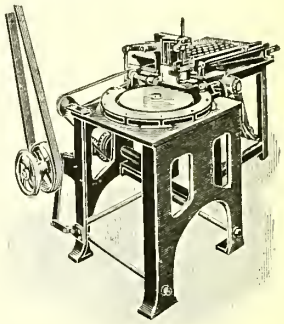

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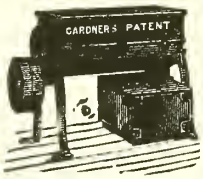

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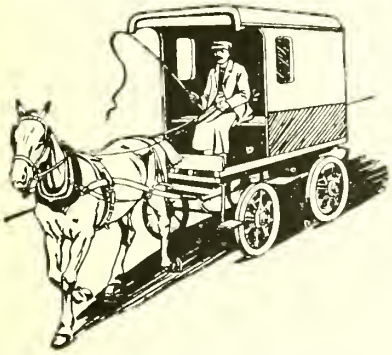

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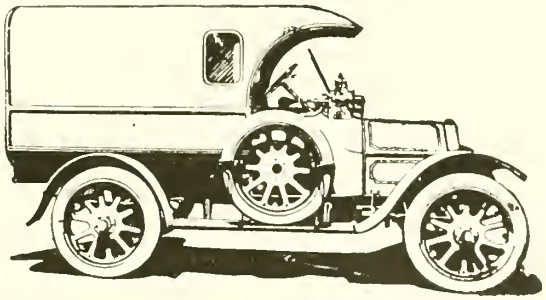

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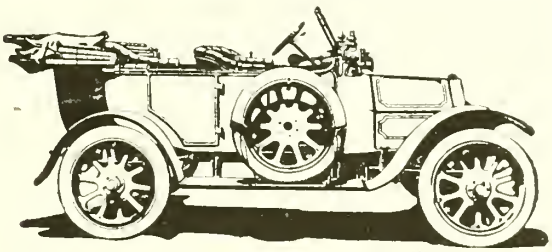

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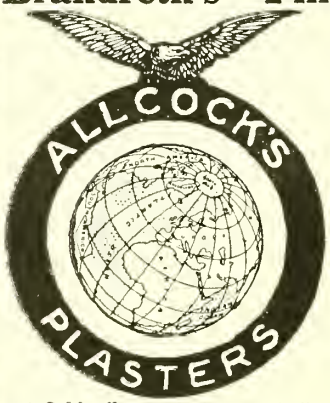

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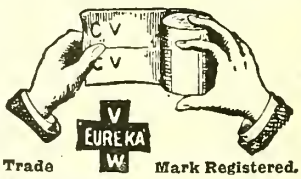

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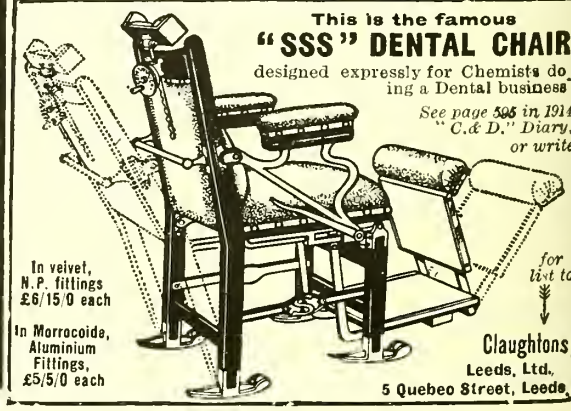

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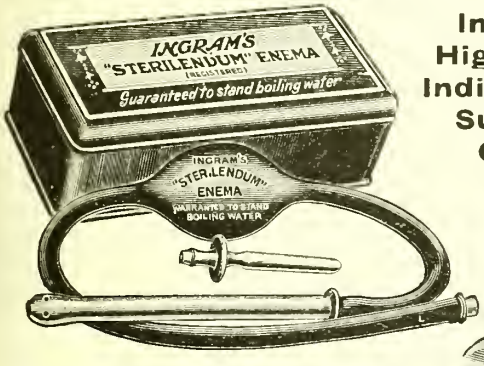

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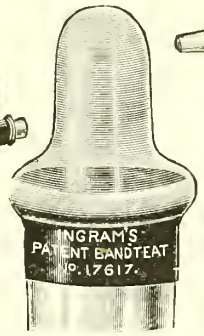

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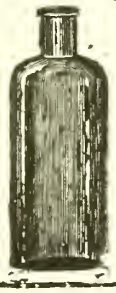

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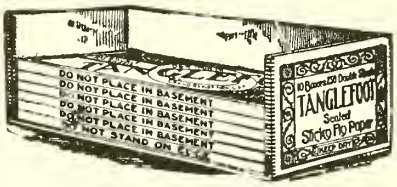

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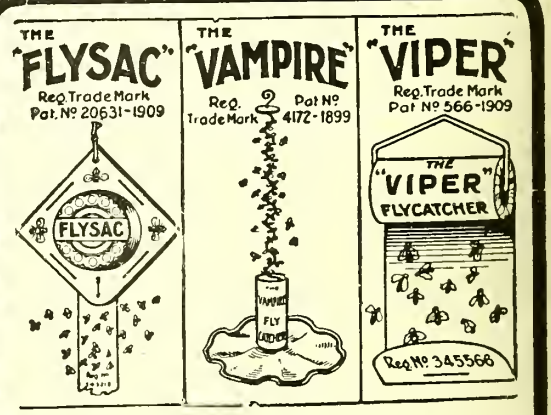

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OFFICE: 42 CANNON STREET, E.C. SATURDAY, MAY 9, 1914

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7.—LONDON, S.W.—Cash Retail, Prescribing, and N.H.I., in centre of large population; returns about £25 weekly, increasing; net profit 33⅓ per cent.; no near opposition; modern up-to-date Pharmacy, fully stocked; price £600; books properly kept.

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9.—MIDDLESEX (Death Vacancy).—Very profitable Cash Retail Business; practically unopposed; returns last year £1,360; net profit over £400; good house and Pharmacy; well stocked; price £900; personally inspected.

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11.—LINCS.—Unopposed General Country Retail; returns under manager £533; net profit £160; good house; low rent; good for increase; price £200 or valuation.

12.—OXON.—Old-established Light Country Retail Business, fine position of good market town; returns £800, with scope for increase; double-fronted shop, well stocked; price valuation.

13.—DEVON.—Light Family Retail and Dispensing; charming locality; easily worked; returns £700; net profit £200; attractive Pharmacy, well stocked; good house; price £400 or valuation.

14.—BEDFORDSHIRE. — Light Cash Retail, no N.H.I. work; returns about £750; net profit £200; books audited; good house and shop; low rent; price £335, or valuation.

15.—LONDON SUBURB, N.W.—Good-class Dispensing and Light Retail Business; very profitable; no side-lines; returns £750; fine position; large house and Pharmacy, fully stocked; price £600.

16.—LONDON, N.E. — Cash Retail and Prescribing; not Panel; returns over £800; plenty of scope; net profit £[illegible]; busy main road; large shop, fully stocked; price £425, or offer.

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CAIRO, Egypt.—For immediate Sale, old-established Pharmacy, doing high-class trade only; turnover about £2,500 per annum, verified; 30 per cent. net profit after paying qualified management and all other outgoings; splendid opportunity for enterprising man. Full particulars can be obtained upon application to 2 Baalbec Road, Highbury, N.

EALING, W.—Rent £36; doing £100 monthly, increasing; shop, office, kitchen, two store rooms, bed-sitting room; good-class residential Retail, Dispensing, and Prescribing; gentleman essential; valuation and goodwill. 68/34, Office of this Paper.

FLINTSHIRE.—Profitable Retail, Prescribing, and Dispensing Business for immediate Disposal; N.H.I. work; shop with modern fittings and excellent stock; good house, with long lease; estimated net profit about £300; sum required about £600. Fullest particulars on application, Jones, Chemist, Connah's Quay.

LIVERPOOL.—Good Dispensing and Family Business; handsomely fitted (solid mahogany) shop; small Optical business done; large house; rent £45; returns £600; net profit £200; price £500, or valuation terms could be arranged. "Helmitol," Evans Sons Lescher & Webb, Ltd., Liverpool.

LONDON (South).—Genuine middle-class Suburban Business; about 10 miles out; practically unopposed; returns last 3 years £1,161, £1,293, £1,460; no booking; net profit about £450; assistant kept; fine corner shop, with house attached; price £900 or valuation, plus about £100 for goodwill. Address, "Progressive" (82/36), Office of his Paper.

NOTTINGHAM.—Old-established Light Retail and Dispensing; best reason for selling; good house, main road; net profit nearly £200; good prices; few Patents; very low price to quick buyer. Freeman, 57 Mansfield Road.

ON the Borders of Middlesex.—Old-established Dispensing and Family Business; no side lines; small returns; good stock and good shop; inclusive price £200, or open to an offer; bona-fide inquiries only answered. "Litmus" (83/7), Office of this Paper.

SANQUHAR, Dumfriesshire. — Old-established and improving Cash Business for Sale; a good and thriving district; capable of development; on Panel; annual returns for last three years average £460; shop, etc., on lease if desired; reason of disposal, death of proprietor. Apply Medical Hall, Sanquhar.

SUNDERLAND.—For Sale, the Burn Park Pharmacy, New Durham Road, at valuation of stock and fixtures. For full particulars apply as above.

SUSSEX.—Net profit £200; turnover £700, and steadily increasing; good-class Retail, Dispensing, and Photographic; modern six-roomed house and good garden; low rental; fully-stocked and well-fitted Pharmacy; price £320, or valuation; cash buyers only need apply; no offers can be entertained. Reply to "Welsh" (78/39), Office of this Paper.

SUSSEX (Market Town).—Old-established, small, but profitable, Light Retail and Dispensing Business for Disposal; price £160, less than value of stock and fixtures; very few Proprietary Articles sold; great scope for increase with modern business methods and the addition of side-lines. Address, 78/28, Office of this Paper.

SUSSEX, South Coast.—Genuine old-established Business for Sale in a rising seaside resort; returns £1,150; rent £80; good stock, splendid house and garden, all in good repair; price asked £800 cash; worth inspection, as the owner is retiring; no agents. "Clematis" (81/27), Office of this Paper.

WEST of England (good seaside resort).—Light Family Retail and Dispensing Business; increasing; turnover about £1,200 last year; good profits; fine, attractive Pharmacy; excellent position; low rent; nice house attached; stock and fixtures worth about £900; Price £1,050; business has only changed hands once in 50 years. Apply, "Otto" (82/360), Office of this Paper.

BUSINESS for Disposal in principal Manchester thoroughfare; lock-up shop. Full particulars from Parkin S. Booth, F.A.A., The Association of Manufacturing Chemists, 2 Bixteth Street, Liverpool.

CHEMIST and Druggist; opening for Cash trade and Dispensing; good industrial population, about 3,000, and nearest Chemist 5 miles; National Health Insurance; shop, 5 rooms, garden; special terms for rent if taken immediately; rail an hour from London (South Eastern Railway); nominal price. W. Fryling, Cliffe, Kent.

CHEMIST and Druggist's Business at Harrogate for immediate Disposal; old-established and high-class Pharmacy and Photographic Business; best position in this popular health resort, stock (cost about £300-£400), fixtures, and fittings at valuation; no price asked for the goodwill. For rent and other particulars apply, Box No. 80, c/o Gee & Co. (Publishers), Ltd., 34 Moorgate Street, London, E.C.

COUNTY and Suburban Business near Leeds for Disposal; newly fitted up; good stock; carried on as branch; convenient house; rent £30; vendor, who has other business, will accept the low figure of £150. Apply, "Iodide," c/o Hirst, Brooke & Hirst, Ltd., Leeds.

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SPLENDID opportunity.—An increasing Business in busy Lancashire town, almost unopposed; comfortable house; low rent; established 35 years; counter returns £550, Insurance £400; price for quick sale £450. Apply, 81/34, Office of this Paper.

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PHARMACIST is prepared to Purchase a genuine good-class Retail and Dispensing Business, returning up to £1,500 or £1,600, for cash; Manager with view to purchase, or Partnership in larger concern would be entertained. Please give fullest details of both business and residence in first instance (everything in strict confidence), to "Pharmacist" (80/8), Office of this Paper.

PREMISES FOR SALE.

SPLENDID Opportunity.—For Sale, Corner Shop; new estate; no opposition; suitable Chemist and Druggist. Call and view any day, Estate Office, Grove Park Avenue, Chingford Road, Essex. Tram, 'Bus 35 to estate.

FOR SALE.

CASH Register for Sale; second-hand; fine condition and order. Write, "B.," 55 St. John's Avenue, Harlesden, N.W.

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NEW SOUTHGATE (facing Station). — Handsomely fitted Chemist's Shop and House; good opening for smart man; Dentist would rent two rooms; rent £50 per annum. Baynton, Auctioneer, 68 Myddleton Road, Bowes Park.

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BOMBAY.—Import firm, with excellent connection among dealers in Druggists' goods, is open to Represent a reliable firm, or would accept any good Agency of a regular selling line; good references. Apply, P. D. Nirum & Co., Transwal Terraces, Corner Grant Road, Bombay, India.

LONDON.—Well-established house, with good connection amongst Wholesale Druggists, are open to accept Agencies for articles suitable for Druggist trade. 79/26, Office of this Paper.

SPAIN.—Pharmacist desires Depot or Sole Agency for foreign Pharmaceutical Specialities, Alimentary Products, Perfumery, etc.; or would undertake manufacture and packing locally. Samples, catalogues, and correspondence in Spanish or French only to Mariano de la Vega, Botica del Carmen, Oviedo.

MERCHANTS, with offices in Spain and Portugal, and Travellers covering all these markets, are open for sole first-class Agency, Chemists and Druggists, or other goods. 213/48, Office of this Paper.

SOLE Agents wanted for each county, also for abroad, for Proprietary article sold to Retail and Wholesale Chemists; largely advertised. Write full particulars to "S. A.," c/o Smiths', 100 Fleet Street, E.C.

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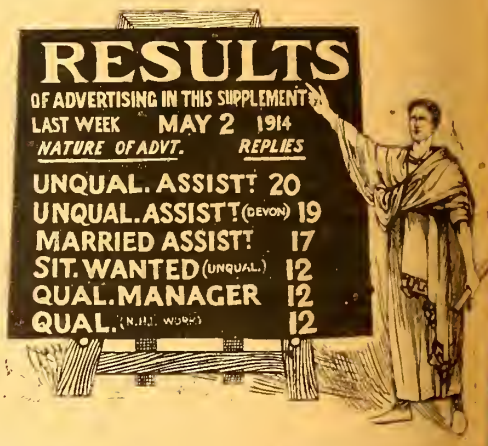

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BECKENHAM, S.E. — Unqualified Assistant for a good hair business; indoors; must be of gentlemanly appearance and address. State full particulars, age, height, experience, and salary required, Barnes & Jones, Chemists, Beckenham, S.E.

BELGRAVIA.—Good opening for a Junior Assistant (qualified). State fullest particulars to "Eleven," c/o S. Maw, Son & Sons, 7-12 Aldersgate Street, London, E.C.

BLACKHEATH.—Qualified male Dispenser (outdoors) wanted for good-class Family practice; suit one requiring permanent, comfortable post. Apply, stating age, salary required, and giving references and testimonials, 80/34, Office of this Paper.

BLOXWICH.—Two Assistants; (1) elderly qualified for supervision only; (2) unqualified, outdoors; young man, about 21, seeking permanency preferred; salary commencing 30s., rising to 45s. State when disengaged in first letter, Belcher, High Street, Bloxwich.

BOLTON.—A qualified Chemist and Optician as Branch Manager; good salary given to a capable, energetic man. Apply to Walker & Riley, Ltd., Chemists, Bradshawgate, Bolton.

BRECON.—Junior Assistant, unqualified; indoors; good-class Agricultural business, Dispensing, Photography; Welsh-speaking preferred, but not essential. Apply, giving references, and photo if possible, with full particulars, to Gwillim, Pharmacist, Brecon.

BRIGHTON.—Unqualified Assistant required for good-class Dispensing business; outdoors. Apply, with full particulars and salary required, to J. Miller, 4 Victoria Road, Brighton.

BRISTOL.—Young qualified Assistant wanted; Dispensing (good class); easy position; comfortable home; very little N.H.I. work. References and salary asked to Edward Maish, Cotham Row, Bristol.

CROWBOROUGH.—Required immediately, thoroughly capable Assistant (qualified or unqualified), not over 30, for good-class Dispensing business. Apply, with full particulars of experience, age, height, salary required (indoors), G. H. F. Dier, Pharmacist, Crowborough.

DEAL.—Competent Junior Assistant required for good-class business; Photographic, Dispensing, Counter. Apply, with full particulars of experience, age, height, salary (outdoors), and photo, E. J. Dobson, 4 Victoria Road, Deal.

DEVON.—Unqualified Chemist, good reliable Counter hand, for Drug Department of good-class business, with N.H.I. Dispensing; very convenient house provided adjoining shop, h. and c. water bath; state if disengaged, salary, number to family, and fullest particulars of experience. Apply, 83/16, Office of this Paper.

EASTBOURNE.—Junior Assistant for good-class Retail and Dispensing business; permanency. Please state age, height, references, salary required, and enclose photo, to J. Forbes, Pharmacist, Eastbourne.

FAVERSHAM.—Good all-round Junior Assistant, knowledge of Dispensing essential, wanted by May 20, about 20; weekly half-holiday; no Sunday duty; outdoors. Please state experience, with reference, age, salary required, and enclose photo, to Thomas, Chemist, Faversham, Kent.

GRIMSBY.—Wanted at once, Manager for Branch; N.H.I. Dispensing, Light Retail; no Sunday duty. Apply, giving particulars of experience, salary required, references, etc., to "H.," W. Gooseman, 88 Corporation Road, Grimsby.

HENDON.—Assistant (indoors), from 21 to 23, in small Light Retail, Prescribing, and Dispensing business; must be accustomed to Dispensing; one from good country town preferred. State age, height, and salary required, enclosing photo, to H. Elmerdine, Pharmacist, Church Road, Hendon, N.W.

ILFORD.—Required immediately, an Assistant (unqualified) for quick Cash trade; weekly half-holiday; no Sunday duty. State salary, with usual particulars, J. Patterson, 52 Ilford Lane, Ilford.

IPSWICH.—A reliable unqualified Assistant, not over 30, with knowledge of Photography; outdoors. Give full particulars and salary required, W. H. Stones, 21 Tacket Street, Ipswich.

JANCS.—Smart Junior (unqualified) wanted for busy seaside watering-place. Apply, stating salary required (outdoors), age, height, and photo if convenient, to "Ferrum" (80/1), Office of this Paper.

LANCASHIRE.—Unqualified Assistant with good Photographic and Dispensing experience required for an excellent business. State age, salary required, and when at liberty, 80/42, Office of this Paper.

LEICESTER.—Improver for middle-class trade; moderate hours; must be a good Stock-keeper; one who has served part of an apprenticeship not objected to. State age, height, experience, and salary required, with photo, to Berridge, Ltd., Chemists, Leicester.

LONDON HOSPITAL, Whitechapel, E.—Wanted as soon as possible, Dispenser (male) for six months certain, probably permanently; commencing salary £120 yearly; Minor qualification essential. Apply to the Pharmaceutist.

LONDON.—Qualified Manager for a quick cash business; excellent opportunity for a smart married man desirous of settling down and making a lucrative permanency. State age and when at liberty, 80/41, Office of this Paper.

LONDON.—Elderly qualified Chemist; congenial berth for the right man; easy hours. State when at liberty, 80/45, Office of this Paper.

LONDON (near).—Unqualified Assistant required for a Dispensing and Light Retail business, pleasantly situated; must be a good Counterman and Dispenser. State age, salary required, and when at liberty, 80/44, Office of this Paper.

LONDON, N.—Qualified Manager; good opportunity for one requiring a permanency. Apply, giving full particulars of age, height, experience, and salary required (outdoors), to 83/4, Office of this Paper.

LONDON, S.E.—Unqualified Assistant wanted for a good-class Retail business; outdoors; salary £2 5s. weekly; kindly state age, height, experience, and when disengaged. Apply, 81/32, Office of this Paper.

LONDON, S.E.—Required for a good-class Dispensing business, competent, unqualified Assistant; indoors; must be an accurate Dispenser; abstainer preferred. 82/14, Office of this Paper.

LONDON, S.W.—Junior or Improver; outdoors; 25s. weekly; time for study daily or as arranged; near Schools; hours 8.30 a.m. to 9 p.m., Wednesdays 1 p.m., Saturdays 10.30 p.m. Please give full particulars, "H." (79/39), Office of this Paper.

LONDON, S.W.—Messrs. Amoore & Co. require a qualified Assistant, about 24 years. Apply, with full particulars, to A. H. Brooks, 173 Sloane Street, S.W.

LONDON, S.W.—Junior wanted for May 20; indoors or outdoors. Apply, stating age, height, experience, and salary required, to J. G. Feltwell, Dispensing Chemist, Church Road, Barnes, S.W.

LONDON, S.W. — Required, Dispenser; Minor qualification; salary to commence 50s. per week; age about 25; hours of work 8.45 a.m. to 6.30 p.m., approximately; no Sunday duty; 14 days annual vacation. Apply, by letter, stating full particulars, to 282, Sell's Advertising Offices, Fleet Street, E.C.

LONDON, W.—Qualified Assistant for Dispensing Counter; outdoors. Apply, stating age, height, salary required, with full details of previous experience, to Roberts & Co., 76 New Bond Street, W.

LONDON, W.—Required on May 25 or earlier, smart unqualified Assistant for high-class Dispensing and Retail Counter; age about 30; commencing salary £2 7s. 6d. per week (outdoors). Please state age, height, and full particulars of last three engagements, with duration of each, to "Rex" (80/39), Office of this Paper.

LONDON, W.—Unqualified Assistant required for modern Cash business; Counter and Dispensing experience essential; permanency. State age and when at liberty and salary required, 80/46, Office of this Paper.

LONDON, W.—Required immediately, smart qualified Manager; good salary offered. Give full particulars, age, salary, experience, etc., 81/140, Office of this Paper.

LONDON, W.—A qualified Assistant as Senior for a Dispensing business. Apply, in first instance by letter, "X. Y. Z.," c/o British Drug Houses, Ltd., Graham Street, City Road, N.

LONDON, W.—Assistant, with good references, three or four evenings per week, chiefly for Dispensing. Apply, with full particulars, 83/33, Office of this Paper.

MANCHESTER District.—Young qualified Assistant wanted; salary £3 per week and commission; must be quick and reliable and a good Salesman. State age, height, experience, references, and photo, 78/36, Office of this Paper.

MANCHESTER (near).—Locum wanted for Wednesday morning, all day Thursday, Friday, Saturday, July 8 to 11 inclusive. State terms and references, 77 Market Street, Atherton.

MIDLANDS.—Qualified Assistant required by firm of Store Chemists, with view to future management of Branch; good prospects and every encouragement to right man; liberal salary and commission, and reasonable hours; no Sunday or B.H. duty. Give full experience, age, height, and salary required (in confidence) in first letter, photo if convenient, 80/30, Office of this Paper.

PRESTON, Lancashire.—Smart, qualified Manager required for Mixed business; permanency, good salary, and liberal interest in the business offered to a good worker. 80/43, Office of this Paper.

ROSS-ON-WYE.—Unqualified Assistant required for good-class Light Retail and Dispensing business; indoors; no Panel; age about 22. Apply, with full particulars, to A. Porter, 13 High Street, Ross-on-Wye.

ROYAL SOUTH HANTS AND SOUTHAMPTON HOSPITAL.—Required, a Dispenser (male); candidates must be registered, hold certificates from a recognised School of Pharmacy of the United Kingdom, and be willing to engage for twelve months; salary £80 per annum, with rooms, board, and washing; applications, stating age, with printed copies of testimonials (limited to five), to be sent to the undersigned at once; duties to be taken up on June 1. T. A. Fisher Hall, Secretary. May 6, 1914.

ST. THOMAS'S HOSPITAL, S.E.—Temporary Assistant for 18 weeks from June 1; Minor or Major; male; under 30; hours 9 to 5; no Sunday duty. Apply to J. A. Jennings, Pharmaceutist.

SOUTH COAST.—Reliable Junior Assistant, accustomed to first-class Dispensing business. Apply, giving full particulars of experience, age, height, salary required, and enclose photo, Hall & King, West Cliff Pharmacy, Folkestone.

SOUTHAMPTON.—Unqualified Assistant for Counter, N.I. Dispensing, and Photographic trade; a good salary to the right man; shortly to live over premises. Apply, with full particulars and salary required, Dodridge, Pharmacist, 47 Victoria Road, Woolston.

WESTGATE-ON-SEA.—Assistant (22-24), unqualified, outdoors, for first-class Dispensing and Retail business; good Dispenser and knowledge of Photography; permanency. Please state experience, age, height, and salary required, to C. H. Dixon, Chemist, Westgate-on-Sea, Kent.

YORKSHIRE.—Smart, qualified Chemist wanted for busy industrial centre; outdoors; accustomed to good-class Cash trade, with Photography and N.H.I. Dispensing; applicants please state fully salary required, references, experience, and when disengaged. Apply, 81/24, Office of this Paper.

A DISPENSER and Bookkeeper wanted. Apply, stating terms (outdoors), age, experience, and qualification, Drs. Wilson and Page, Penzance.

A QUALIFIED, experienced Assistant wanted; one able to take entire charge; permanency to a good man, married preferred. Apply, with full particulars of age, experience, height, salary required, to 81/28, Office of this Paper.

AN Assistant wanted; outdoors. Apply, giving full particulars, to D. P. Roberts, Chemist, 120 North End, Croydon.

ASSISTANT; permanency; outdoors; good Counterman and Dispenser. Apply, stating full particulars and salary required, to L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

ASSISTANT, outdoors, 21-23, qualified, and with good previous experience, for first-class West-End business; staff of three. Reply, stating age, height, salary required, and if possible enclosing photo, to Mr. F. Piper, 5 Alwyne Mansions, Wimbledon, S.W.

ASSISTANT, single, with good Counter and Dispensing experience; age about 25; must be of good address and have excellent references. Apply, stating age, height, salary required, and when disengaged, with photo, to T. Furness & Son, The Pharmacy, Chesterfield. Applications not answered in three days declined.

ASSISTANT wanted; one who has had good all-round experience, including Photography, preferred. Please state age, experience, references, salary required, and when disengaged in first letter, or apply personally to Bishop & Vincent, 460 Holloway Road, London, N.

ASSISTANT, good appearance, smart Salesman and Window-dresser, wanted immediately for Exhibition (4½ months); salary 40s. weekly. Apply, Lloyd, Rexall Pharmacy, Building 101, White City, Shepherd's Bush, London, W.

BRANCH Manager.—Capable, qualified man required; good Salesman, Dispenser, and Window-dresser. Applicants please send particulars of age, height, previous experience, and salary required, enclosing photograph (to be returned), to Manager, Hedges (Chemists), Ltd., 10, 11, 12 Dale End, Birmingham.

CONFIDENTIAL applicants invited for competent Pharmacists desirous of Managing high-class Branch Pharmacy conducted on modern lines; share of profits given; outdoors; all applications treated strictly confidence. 83/29, Office of this Paper.

DIRECTOR for Wholesale and Retail Chemists and Drysalters; old-established business; good paying concern; qualification £500 in Preference six per cent. or Ordinary £1 shares; fee 50 guineas per annum; monthly meetings. Midland Conversion Company, Ltd., Company Promoters and Partnership Agents, County Chambers, Corporation Street, Birmingham.

DISPENSER (male) required immediately for South Wal Colliery Practice; salary 35s. a week (outdoors); applican must be single and not more than 35 years of age. Particula from R. Sumner & Co., Ltd., Wholesale Druggists, Liverpool.

DISPENSER (capable Junior) required, with Minor qualific tion; short hours. Apply, Staff Superintendent, Harrods, Lt 44 Hans Crescent, S.W.

EVENINGS.—London, S.E.; Assistant, about 24, required thr or four evenings weekly (not Saturdays), 6.30 to 10; N.H Dispensing and counter; not far from City; remuneration per night. 83/39, Office of this Paper.

IMMEDIATELY.—Good Assistant, capable of taking char country branch; knowledge of Dentistry if possible; m be sober; qualification not really essential. Full particulars Viner, Chemist, 11 King Street, Portman Square, W.

IMPROVER for Window-dressing, stock, and to assist genera in a good-class business; moderate salary to commence, b efficient help will be suitably recognised; outdoors; tea provid interview or photo. All particulars and salary required "Chemist," 10 The Vale, Acton, W.

IMPROVER or Junior required; indoors; time for study a recreation. State salary, Davies Bros., Chemists, Gorseinon

IMPROVER or young Junior required for Cash Retail and I pensing business. Apply, with full particulars, to Jas. Wo Ltd., 76 Bath Street, Ilkeston, Derbyshire.

IMPROVER or Junior (outdoors) for quick Cash trade; state a experience, and salary required; half-holiday weekly; no S day duty. Apply, with references, to J. & J. Thompson & C Ltd., Cash Chemists, Oldham.

JUNIOR wanted for July and August for Dispensing busin Apply, stating full particulars, references, and salary requi (outdoors), to E. E. Hall, Newbridge, Wolverhampton.

JUNIOR Assistant; outdoors; Retail, Dispensing, and Ph graphic; weekly half-holiday; no Bank Holiday duty. U particulars, Stokes, Chemist, Eastville, Bristol.

JUNIOR (outdoors) wanted immediately; good-class provin business; easy hours; apprentice kept. Apply, R. B. Sa land, Pharmaceutical Chemist, Leominster, Herefordshire.

JUNIOR or Improver for good-class and Mixed Country b ness; outdoors. Apply, Horrocks, Chemist, Knutsford.

JUNIOR qualified Assistant; reasonable hours, with prospect advancement to a worker. Kindly state in brief essen particulars of experience, etc., to Mr. Wm. Shadforth, Phar ceutical Chemist, 63 Grove Road, Bow, London, E.

JUNIOR required in good-class Dispensing and Retail busi where 3 are kept, and live over premises; hours 8.30 9 p.m.; duty divided equally. Apply, stating age, experie salary, and enclose carte, Procter, 5 Station Parade, Eastbour

JUNIOR Assistant, about 21, for pushing Cash trade; no Su or holiday work; outdoors; closed Wednesdays at 1. St age, height, and salary, Payne, Pharmaceutical Chemist, M stone.

LADY Dispenser and Bookkeeper wanted for Doctor in N of England; to live at Surgery. State terms, etc., Cr shanks, 22 Normanton Terrace, Newcastle-on-Tyne.

LADY Dispenser and Bookkeeper for Doctor in country t light post; qualification not necessary if thoroughly ex enced in Dispensing. Apply, giving salary required, age, references, 83/3, Office of this Paper.

LEWIS & BURROWS have a vacancy for a smart J Assistant. Apply, with full particulars, to 146 Holborn E.C.

LOCUM wanted for May 16 to 30; experienced, qualified, knowledge of Optics preferred. Send particulars of e ence, terms, and recent references, to the Manager, W. Everett, Ltd., St. Botolph's Pharmacy, Colchester.

LOCUM Dispenser wanted for the Royal Infirmary, Sh for four weeks from July 6 to August 1 inclusive; d and tea provided; hours 9 to 5; Hospital experience des Write, stating terms and all particulars, to the Pharmacist Royal Infirmary, Sheffield.

LOCUM-TENENS Dispenser, qualified, required for 8 from present date; salary £2 10s. per week. Applic to be sent to Medical Superintendent, Surrey County A Brookwood, Woking.

M AGER wanted for Branch; married, to live on premises; ntlemanly; good Salesman and Dispenser, with some Photo- knowledge; must be neat, accurate, methodical, and med to good-class Family trade. State full particulars perience, age, if any family, salary, and references, Chemist, Bowdon, Cheshire.

M SRS. HOLMAN, HAM & CO., 74 High Street, Exeter, have vacancy for a qualified Assistant as second man on staff outdoors. Apply, with full particulars (experience, salary d, etc.) in first letter, with photo if possible, to "W. A.," ve.

N.I.I.—Well-known firm require smart young man as Script Pricer. Apply, 80/47, Office of this Paper.

P T-TIME Assistant wanted; suitable for Students or others; incipal evening duty. 175 Uxbridge Road, London, W.

P T-TIME Assistant for two evenings and every third Sunday good-class Dispensing business. Apply, 78/38, Office of per.

P T-TIME; start next Monday; suit advanced Minor student Major reader with City experience; hours 9.30 to 3, ay till 4; must be quick, capable, and cheerful, and not 0. State last two references for fullest investigation if p, "Instanter" (83/1), Office of this Paper.

P RMACEUTICAL Chemist wanted to lecture on Pharmacy, aterie Medica, and Inorganic Chemistry, and teach Practical acy; salary £180 per annum; state earliest date available. "School" (215/11), Office of this Paper.

Q ALIFIED Chemist for branch; salary and commission; live it; must give good references, and willing to take occasional t main shop; Extractor preferred; also unqualified Assistant; ut. State salary, etc., Gill, Pharmacist, Heneage Street, ngham.

Q ALIFIED Assistant, now until October, for Scotch Holiday esort; Dispensing, Photography, and General Counter work. furnish full particulars, when free, age, experience, refer- and salary expected, McCutcheon, Kingussie.

Q ALIFIED Assistant wanted for June 1 to manage Retail ranch, Dispensing and General. Apply, stating age, salary ed (indoors), references, etc., to F. Tunbridge, 39 Castle Str., Reading.

Q ALIFIED Manager wanted for small Branch until about nd of September; also an unqualified Assistant. Photos if le, Hall, Chemist, Skegness.

Q ALIFIED Manager for Branch in Bristol; also qualified ssistant for relief during holidays; permanent berths for le, energetic men; no Sunday duty; outdoors; hours 8.30 0, Fridays to 9, Saturdays to 10; closed Wednesdays at 1. eight, salary, and references to Managing Director, Hodders, 5 Nelson Street, Bristol.

Q ALIFIED Assistant, June 2, with good Counter and Dispens- g experience and knowledge of Photography; indoors, to with other assistants over business premises; progressive . Apply, stating age, height, reference, and photo, to , Chemist, Maidstone.

Q ALIFIED Locum wanted for June (outdoors), also Junior, qualified, at once. Usual particulars, Tremlett, Pharma- ratton Bridge, Portsmouth.

Q ALIFIED Assistant at an early date (indoors) for good Dis- ensing business; light hours. Rex Blanchford, 76 High , Wimbledon, S.W.

Q ALIFIED Assistant for Relief work; good opportunities for nterprising man of good ability; also Junior. Applicants give full particulars of age, height, experience, salary ed, and if convenient enclose photograph, to Secretary, s (Chemists), Ltd., Dale End, Birmingham.

Q ALIFIED Chemist immediately as Manager or Assistant for ight Retail and Dispensing business (Yorkshire); single red; an elderly man not objected to; short hours: comfortable permanency; in- or out-doors. State age, salary, and refer- 82/9, Office of this Paper.

Q ALIFIED Manager wanted; a young and active man and ood Dispenser. State experience, references, and salary ed, R. Needham, Chemist, Stalybridge.

Q UALIFIED Junior Assistant wanted early in June. Apply, with usual particulars, to Tupholme & Son, 1 Colehcrne Terrace, Earl's Court, S.W.

Q UALIFIED Assistant (one other kept) for good-class Retail, for one month from about middle of July; abstainer pre- ferred. Apply, stating salary required and usual particulars, to Mr. Wilson, 80 Lambs' Conduit Street, London, W.C.

Q UALIFIED Manager at once for small Drugs Stores, General, Retail, and Dispensing; married man, to live on premises; Earlsfield, S.W.; salary two guineas weekly, house and gas, and commission on profits; good scope for capable and steady man. Full particulars, with references, etc., to "M. A.," 43 Overhill Road, Dulwich, S.E.

R ELIABLE unqualified Assistant; accurate Dispenser and quick Counterman; reasonable hours; weekly half-holiday; no night, Sunday, or holiday duty; comfortable berth for one desiring a permanency. Full particulars of age, height, experience, refer- ences, and salary required, with photo if possible, Steedman, Chemist, Beverley.

S MART Junior wanted for good-class London Suburb; good salary. Apply, with particulars, to L. H. Knight, 3 The Exchange, Purley.

S MART unqualified Assistant for suburban business; good Win- dow-dresser and Dispenser; married preferred; comfortable situation for good worker. Apply, "Permanency" (83/15), Office of this Paper.

T HIRD Dispenser (male), holding Minor qualification, is wanted at the Bristol General Hospital; salary £110 per annum; luncheon provided; hours 9 a.m. to 5.30 p.m. Apply, with refer- ences, to the Chief Pharmacist, General Hospital, Bristol.

U NQUALIFIED Manager for Herbalist business; smart, good Salesman required; able to Prescribe. "K.," 97 Lough- borough Park, S.W.

U NQUALIFIED Assistant for good working-class district; must have good references; a comfortable permanency for suitable man. Barton, 74 Strafford Road, South Acton, London, W. 'Phone 966 Chiswick.

U NQUALIFIED Assistant wanted immediately for permanency. Apply, with full particulars, to Huddart, Chemist, Blackpool.

U NQUALIFIED Manager wanted at once for working-class Branch business (Yorkshire); married man can have house and light free; must be good Salesman and Prescriber, and have undeniable references; please say age, height, experience, refer- ences, and salary; progressive permanency for reliable gentleman. "Drug Store" (80/13), Office of this Paper.

U NQUALIFIED Assistant wanted; must have had good, high- class experience in every branch; hours 7.30 during week; close 1 o'clock Saturdays. State salary required (indoors), to 82/37, Office of this Paper.

V ACANCY through death for qualified, active gentleman; take sole charge of country Druggist's business; elderly widower or bachelor can find a comfortable home with light duties; easy hours; must be strictly temperate; highest reference to ability and personal character required. Full particulars, Thurston, Newent Drug Co., Ltd., Newent, Gloucestershire.

W ANTED at once in a City Stores, a smart Junior, with fair knowledge of Dispensing; outdoors; short hours. Address, stating salary required, to "Digit," c/o Street's, 30 Cornhill, E.C.

W ANTED by June 4, Junior Assistant, unqualified; outdoors; time given for study; Light Retail and Dispensing. Apply, stating age, height, references, and salary required, to R. T. Clarke, 131 Milton Road, Gravesend.

W ANTED, Junior unqualified Assistant for permanency; age 24-30; N.E. London. Apply, "Orthos" (81/7), Office of this Paper.

W ANTED immediately, smart gentlemanly Assistant, used to good-class Dispensing business, preferably unqualified; must be a competent Dispenser and possess a knowledge of Photographic and Counter work; hours 8 to 8.30, Saturday 10; no holiday or Sunday duty. Give fullest particulars in first letter as to experience, age, height, and state salary required (outdoors), Chater, Watford.

£3 per week, with roomy house, to qualified Branch Manager; must be capable and trustworthy; permanency to suitable man. Apply, Bewells, Ltd., 19/21 Pitfield Street, N.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

CLERK for general Office work, Wholesale Druggists; must be a good writer, quick at figures, with experience of the trade; salary £75 per annum. Apply, stating age, etc., to "M." (83/21), Office of this Paper.

EXPERIENCED Counter hand, aged about 24, with good knowledge of Drys, required; progressive appointment for energetic and competent man. State record and wages required to 83/23, Office of this Paper.

FOREWOMAN.—Manufacturing Chemists require young Lady, 25-30 years of age, expert at Bottling, Finishing, and Despatching Proprietaries and to take charge of 20 piece workers; applicant should be well educated, accustomed to control workers, to book and inspect work, and to execute rush orders. Write, stating full particulars of age, experience, and salary required, to "F. J. G.," Box 38, Mitchell's Advertising Offices, 1 Snow Hill, E.C.

JUNIOR Packer wanted; one with experience of Druggists' Sundries and Packed Goods. Apply, stating full particulars of previous employment and wages expected, to Lorimer-Marshall, Ltd., Britannia Works, Coldblow, Hatcham, S.E.

JUNIOR Assistant for Pill Laboratory, with some experience. Apply, giving full particulars, to C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, Great Eastern Street, London, E.C.

LABORATORY.—A firm of Wholesale Chemists require an Assistant with experience in the manufacture of Tinctures and similar preparations. 82/38, Office of this Paper.

MANUFACTURING Chemists require the services of a Pharmacist with experience in dealing with Medical Literature and General Advertising; permanent position, with good prospects. Apply, giving full particulars, to 196/16, Office of this Paper.

PERFUMERY and Toilet Soaps.—Representative wanted for Suburban London; must have good connection; might arrange with one already carrying non-competing lines. Full particulars and terms to 77/34, Office of this Paper.

PILL-MAKER required; hand machines only; must be reliable and thoroughly experienced. State previous employment and wages required, "Belton" (78/37), Office of this Paper.

REPRESENTATIVE for London, calling upon Surgical Instrument Dealers, Wholesale Druggists, Hospitals, Druggists' Sundry Houses, etc., wanted for a few Side-lines on part expenses and commission. Apply, with full particulars, giving references and names of houses representing now, to 83/9, Office of this Paper.

STOCK Clerk required by London Wholesale house supplying Packet Pharmaceutical Specialities; only those with previous experience of similar work need apply. Past experience, age, and wages asked to be stated in letter to "Stock," c/o Fassett & Johnson, 86 Clerkenwell Road, E.C.

TRAVELLERS.—Wanted, Representatives to take up good Side-line in Midlands, North, East, and Western Counties with a good established firm in Shaving Brushes and Combs, having connections with all the leading Chemists, Hairdressers, and Cutlers in United Kingdom for the last 25 years; liberal commissions paid for capable men with good references. Apply, 78/40, Office of this Paper.

TRAVELLERS required to carry advertised Proprietary article sold to Retail and Wholesale Chemists as side line; contribution toward expenses and commission. Reply fully, stating ground covered, to "T. R.," c/o Smiths', 100 Fleet Street, E.C.

TOILET Preparations, Perfumery.—Chemist, young preferred, well up in the Manufacture and Marketing of these, for London; a first-class opening for an able and industrious man. Particulars, in confidence, stating experience, age, salary required, to 83/6, Office of this Paper.

WANTED, Agents calling upon Dentists in all leading towns. Write for particulars to Torepax, 15 Brearton Street, Bradford, Yorks.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

BOMBAY.—Qualified Assistant, with good references, required by leading firm; three years' agreement; liberal progressive salary; passage paid both out and home; permanent prospects for capable young man. Full particulars of age, experience, etc., to 213/23, Office of this Paper.

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; hours 9 a.m. to 6.30 p.m.; passage paid out and home by P. & O. steamship. Apply, with copied testimonials and photo, to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

CAPE TOWN.—Required at once, first-class qualified Assistant as Manager for branch; single; abstainer preferred; salary first year £16, second year £17, third year £18 per month; three years' agreement; second-class passage paid out, to be refunded. Apply, "F. J. G." (83/5), Office of this Paper.

DURBAN, Natal.—Qualified Assistant wanted; salary £20, £21, and £22 per month respectively; three years' agreement; passage paid out by Union Castle Line; age about 24. Apply, with photo and references, to "Proprietor," S. Maw, Son & Sons (Export Department), 7 to 12 Aldersgate Street, London, E.C.

INDIA.—Required shortly, a first-class qualified Assistant; age about 23, for English Chemists doing high-class trade; good salary and prospects for right man; four years' agreement; passage paid both ways. Write, giving full particulars of qualifications and experience, to Indo Burma Co., Ltd., 100 Cool Exchange, E.C.

JAPAN.—Qualified Assistant, about 30 years of age; four years' agreement; salary £144 first year, advancing £12 annually to £180, with residential quarters and board, also a commission on net profits; second-class passage paid *via* Siberia, and return passage home if agreement completed. Apply, with copied testimonials and photo, to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

WANTED, a Pharmacist as Drug Manager and Buyer in a large Departmental Store in India; 5 years' engagement; salary progressive, to commence 400 rupees a month. Apply, by letter, stating age, particulars of experience, etc., to 281, Sell's Advertising Offices, Fleet Street, London, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.] RETAIL.

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ASSISTANT; 25; tall; disengaged May 16; 10 years' good all-round experience; temporary or permanency. Smith, 10 Puller Road, Barnet, Herts.

ASSISTANT, 27, experienced all branches, desires permanency, North of England preferred. Address, 80/4, Office of this Paper.

BLACKBURN. — Intelligent youth requires Apprentice; nominal salary. Halliwell, 4 Palace Road, Aintree, Liverpool.

C IPETENT, reliable Locum, qualified, disengaged till ly 1; highest refrences. Jones, 94 High Street, Clapham, S.W. 'Phone, Battersea 1668.

D ENGAGED May 11; qualified; Locum; age 38; London and rovincial experience. 4 Citadel Terrace, Plymouth.

D PENSER or Locum; first-class experience. "Dispenser," 3 reat Russell Street, W.C.

D PENSER; London; good experience; Hall; engaged 12 to p.m. Hart, 116 Gaskarth Road, Balham, S.W.

E NING, etc.; Minor; aged 34; good experience. "Lax" 79/21), Office of this Paper.

E NING duty from 7 p.m.; good experience. "Rex," 28 egent Square, W.C.

E NING engagements wanted by qualified Chemist; London. Eveready" (81/16), Office of this Paper.

G MAN Druggist, 23, little English, wants any kind of uation in London. Please write to Sachs, 348 Kew Road, Kew Gardens.

H IDAY Relief, Managing Assistant; unqualified; town or untry; Agricultural; good Prescribing and Dispensing experience; tactful; expert window-dresser; disengaged May 9; or permanency. 84/1, Office of this Paper.

I NTRANCE Dispensing wanted by qualified Dispenser. Gibson, 5 Scott-Ellis Gardens, St. John's Wood.

J UNIOR; 22; unqualified. Rose, 5 Station Parade, Eastbourne.

J UNIOR; 24; 4½ years' experience; abstainer; disengaged une 8; state hours, salary; good references. 77/27, Office of this Paper

J UNIOR (20), tall, experienced, requires position in good-class spensing and Retail business. Please state full particulars, Evans, 25 Abbey Street, Kidwelly, Carm.

J UNIOR; 22; 8 years' experience; references; N.I. and Pricing. ate salary, hours, "Ipecac.," 24 St. Mary's Road, Canonbury.

J UNIOR, 20, tall, good Dispensing, desires berth in London; tdoors preferred. T. H. Mathews, Elderslie, Waterloo Terr., Carmarthen.

L A Dispenser, Bookkeeper (Hall certificate); disengaged; experienced; excellent references. Dowling, Kington, Herefordshire.

L A Dispenser (Apothecaries' Hall qualification) seeks engagement, London or near, with Doctor or Chemist. "Alpha," 44 Faldene Road, Chiswick, W.

L A Dispenser (unqualified) seeks post; knowledge of Shorthand and Typewriting. Apply, 82/8, Office of this Paper.

L A Dispenser (Hall qualification); disengaged; S.W. preferred. Barford, 2 Jeffreys Road, Clapham.

L OCUM; disengaged; good experience; satisfactory references. Qualified," Hawthornden, Spring Road, Sholing, Southampton.

L OCUM; qualified; 25; reliable; best recommendations. Hydrargyrum," 7 Winifred Road, Urmston, Manchester.

L OCUM; qualified; abstainer; experienced. A. J. Paynter, Weymouth Road, Frome, Somerset.

L OCUM; 30 years' wide experience; qualified; disengaged from week May to end June; present address c/o Archer, Chemist, Post Office, Epworth, Doncaster; Northern address, Smith, 93 Carr Road, Nelson, or Smith, Chemist, Warsop, near Mansfield, Notts.

L OCUM; reliable; unqualified; 29; tall; Dispensing, Prescribing, Photography, N.H.I. qualification; sound experience. 80/19, Office of this Paper.

L OCUM; town or country; qualified. West, 47 Vicarage Road, Leyton, London, N.E.

L OCUM, unqualified; 35; Dispensing, Counter. Dewar, 196 Monega Road, Forest Gate, E.

L ONDON.—M.P.S. requires situation where Optical experience can be obtained; two afternoons a week free; West-End experience. "Toric," 72 Portland Place North, Clapham Road.

M.P.S. (26), thoroughly experienced, desires post as Manager or Dispenser, Liverpool (City) or Birmingham. J. H. Boyd, 22 Charles Street, Wigan.

M.P.S. disengaged for May; London or Suburbs. T. J. Perkins, 67 King's Hall Road, Beckenham.

M ANAGER or position of trust; outdoors; Major; Wholesale and Photographic experience; middle aged; active Dispenser and Pharmacist. "Chemist," 241 Lordship Lane, East Dulwich, S.E.

M ANAGER. — Pharmacist, married (42), under no notice, desires change (permanency); West-End and country experience; Photographic, Agricultural; over premiees considered. 81/23, Office of this Paper.

M ANAGER; Dentistry, Pharmacy, Optics; experienced, educated; accustomed sole control. "Unreg." (79/35), Office of this Paper.

M ANAGER, Pharmacist, married, very experienced, abstainer, desires permanency in Pharmacy or Store; remunerative salary; disengaged. 82/39, Office of this Paper.

M ANAGER; experienced, energetic, reliable; unregistered; succession; disengaged. "Energy," 1 Alexandra Mansions, Wirtemberg Street, Clapham.

M ANCHESTER; permanency; qualified; Locum open. Walker, 25 Douglas Street, Higher Broughton, Manchester.

M INOR man, in indifferent health, but active, seeks permanency in any capacity or where qualification is useful; single; moderate terms. "Experience" (81/013), Office of this Paper.

P ART-TIME; two evenings week; unqualified. Hector, 150 Elmhurst Mansions, Clapham, S.W.

P HARMACIST, retired, age 40, seeks light situation in or near Liverpool; temporary or permanent; good experience; reasonable wages, easy berth; disengaged. 81/37, Office of this Paper.

Q UALIFIED; 30; good experience Dispensing and Counter; London preferred. "Radix" (79/31), Office of this Paper.

Q UALIFIED Assistant (lady); 5 years' practical experience Dispensing and Retail; highest references; Oxford preferred. 77/33, Office of this Paper.

Q UALIFIED; 24; Dispensing, Counter work; abstainer; Photography; Manager or Assistant. 78/25, Office of this Paper.

Q UALIFIED Manager; 46; married; energetic; thoroughly competent; experienced in every class of business; successful Prescriber; Photography, Optics; well recommended; seeks secure permanency. 81/9, Office of this Paper.

Q UALIFIED Manager; Liverpool; middle aged, active, trustworthy. 81/26, Office of this Paper.

Q UALIFIED Manager; London or Suburbs; Locum; Prescriber, Extractor; disengaged. "Acacia," 100 Richmond Road, Earl's Court.

Q UALIFIED Chemist (35), capital £100, desires berth with succession in 12 months, remainder of purchase money by instalments; London; excellent references and experience. "Chemist," 26 Graemere Road, Muswell Hill, N.

Q UALIFIED Manager or Dispenser; good all-round experience. "London," 92 Fentiman Road, S.W.

QUALIFIED Manager (41), at liberty, with good all-round experience, high-class Stores and Dispensing, wishes responsible position. "Camphon," 49 St. Maur Road, Parson's Green, S.W.

QUALIFIED Assistant requires evening employment; good all-round experience, Continental Pharmacy; French spoken. Apply, "Senior," 202 King's Road, Chelsea, S.W.

QUALIFIED Manager; 42: permanency; good all-round London experience; disengaged. 81/14, Office of this Paper.

QUALIFIED; 41; single; good varied experience; moderate terms; brisk business, N. or N.E. London or elsewhere. "Willing" (81/13), Office of this Paper.

QUALIFIED; open to invest small sum in sound, brisk business; London or elsewhere; single. "Genuine" (81/130), Office of this Paper.

QUALIFIED; 41; whole or part time; moderate terms. "London" (81/103), Office of this Paper.

QUALIFIED, elderly, open to an engagement; South of Thames preferred; short hours; moderate remuneration. 82/4, Office of this Paper.

QUALIFIED; Manager or Assistant; 33; first-class references; disengaged; Manchester district preferred. 79/40, Office of this Paper.

QUALIFIED; 35; tall; married; Counter, Dispensing, Photography. "Don," 16a Highgate Road, N.W.

QUALIFIED Manager, married, tall, desires permanency in really good-class business; thoroughly experienced and competent in every respect; first-class references furnished. "Pharmacist," 64 Arthur Road, Wimbledon Park, S.W.

QUALIFIED; elderly; temporary, permanent; Locum; excellent references. "B.," 3 Barrow Road, Streatham Common.

QUALIFIED; 30; disengaged; Liverpool district preferred. "Zenith," 19 Newcombe Street, Anfield, Liverpool.

QUALIFIED Manager; married; London and provincial experience; good references; permanency. 83/17, Office of this Paper.

SUCCESSION.—Manager, view succession; qualified; excellent references. "R.," Park Lodge, Finsbury Park.

UNQUALIFIED; 37; good experience; London preferred; tactful Counterman, good Window-dresser. Fisher, 5 Cranston Road, Forest Hill, S.E.

UNQUALIFIED; permanent, Locum; quick Counter, Windows, Photo, Optics. Thompson, "The Lennep," Brighton.

UNREGISTERED Assistant; 43; competent; Dispensing, Counter Prescribing. "Statim," 6 Cornbrook Street, Old Trafford, Manchester.

UNQUALIFIED, disengaged (24), tall, good experience and references, wishes Part-time or time off for study; Midlands; close to College preferred. D. B. Torrance, Leigh, Stoke-on-Trent.

UNQUALIFIED Manager seeks engagement; age 30; tall; first-class references and experience; good Salesman and Window-dresser. "Rhei," Cottenham, Cambridge.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED Assistant; 27; 9 years' experience; good references; locality no object. "Resinol," 76 Greenwood Road, Dalston, London, N.E.

UNQUALIFIED; thoroughly competent, quick; Dispensing, Counter; disengaged. "S.," 604 Woolwich Road, Charlton.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ABSTAINER, 30 years of age, with extensive commercial and organising experience at home and in U.S.A., seeks position of trust, commercial or otherwise; highest references; home office in Yorkshire. Apply, 80/12, Office of this Paper.

AS First Counter hand, supervision Packed Goods, Specialities, etc.; life experience; age 32 years; steady, reliable; 12 years reference; would travel if required. 79/37, Office of this Paper.

ANALYTICAL Chemist, research and works experience, wants Part-time employment, with or without use of Laboratory. 53/32, Office of this Paper.

CHEMIST, young, fully qualified, with extensive practical experience in preparing Advertising Literature, and with administrative capabilities, seeks change of employers; exceptional references. 77/37, Office of this Paper.

ENERGETIC, capable man, real worker, 33, desires position as Representative; London or Suburbs preferred. "F," 781 Fulham Road, S.W.

EXPERIENCED Representative desires re-engagement; West and South of England. 81/31, Office of this Paper

GERMAN Druggist (25), speaking English, experience of general office work, Wholesale and Retail business seeks position in England or abroad; highest-class references. "G.," c/o Dixon's, 195 Oxford Street, W.

GLASGOW and West of Scotland.—Traveller, with good connection, wishes additional Agency; references. Reply to R. R. Smith, 4 Battlefield Avenue, Langside, Glasgow.

MANUFACTURING Chemist, London experience, general Manufacturing and Specialities, desires appointment with Wholesale Druggist; Analysis, Drug Standardising, and practical knowledge of all departments. 80/5, Office of this Paper.

PHARMACEUTICAL Chemist, 32, with practical experience in General Correspondence, Advertising, and Medical Literature, accustomed to Company Secretaryship, having special knowledge of Galenicals and Toilet Preparations, seeks progressive position in well-conducted Wholesale firm. 79/17, Office of this Paper.

SCOTSMAN (26), 11 years' varied Retail experience desires progressive position in Advertising Department, Wholesale or Proprietary house. "Publicity" (80/11), Office of this Paper.

TRAVELLER, experienced, commercial training, smart salesman, open to Represent good house; Essences, Oils, bottles, etc.; sound connection. Apply, 70/22, Office of this Paper.

YOUNG Hungarian qualified Chemist desires position in Wholesale Manufacturing house; speaks German; excellent references. Apply, 76/40, Office of this Paper.

C. & D. SHOPS ACT NOTICE.—An inspector of shops under one of the County Councils, writing in regard to the notice-card which we publish for exhibition by chemists during closing hours on the half-holiday, says: "The notice seems to be as little objectionable to the shopkeeper as can be made." We supply a pair of the notices for 8*d.*, post free.

"GUIDE TO PRELIMINARY EXAMINATIONS IN PHARMACY, ETC.—Many of our readers will be considering from time to time what to do with their sons, and in this connection may desire to ascertain the degree of difficulty of examinations for pharmacy, medicine, dentistry, etc. This little volume contains full information as to the regulations, together with sample papers and many useful hints on all the subjects given at the Preliminary examinations for these professions, and it is a book necessary to the intending competitor and useful to the parent seeking information.—*The Schoolmaster.*

Pharmaceutical Council Election, 1914.

VOTE FOR

DANIEL ARNOTT, Pontypridd, member of the Advisory Committee to the Welsh Insurance Commissioners, so that he may plead on the Council for an active policy in redressing the many grievances of Pharmacists.

CHAS. W. BRUMWELL.

The men behind the counter "pay the piper," and should "call the tune."

Vote for

Brumwell

The man who works behind his own counter.

Pharmaceutical Council Election

To the Electors

At the request of the North London Pharmacists' Association I venture to solicit your votes.

I hold that concentration of our forces for aggressive action is the most vital thing in Pharmacy at the present time, and for that purpose every section should be represented on the Council. As public pharmacist, I commend the claim of institution men to your consideration.

London has four representatives on the Council, but they come from one quarter, which means that 90 working pharmacists feel only a remote interest in affairs, thereby inducing slackness in the time of need. As general secretary of an association with 300 members, I submit that civil and institutional interests are welded in my candidature.

We North Londoners recognise that the satisfied man is a spent force, and I urge all who feel that better things are possible to vote for strengthening the constructive and progressive side of Pharmacy.

Yours faithfully,

HERBERT SKINNER.

PHARMACEUTICAL COUNCIL ELECTION, 1914

THE MEMBERS OF
The Bournemouth Pharmaceutical Association,
The Brighton and Hove Association of Pharmacy,
The Hants County Pharmacists' Association,
The Dorset County Pharmacists' Association,
The Portsmouth and District Association of Pharmacists,
The Southampton and District Pharmacists' Association
ARE PLEASED TO SUPPORT, AND
Ask Your VOTE and Interest for
F. E. BILSON,
of Bournemouth.

Mr. F. E. BILSON (*Bournemouth*)

Mr. BILSON has been in business for 28 years at Bournemouth, has been active in Local Association work, and has held the office of President.

At the present time he is President of the recently formed Hants County Association and is responsible for much of its success.

National Insurance has claimed his attention, and he holds every position open to a local pharmacist on the Borough of Bournemouth or the Hants County Committees. He is therefore conversant with the troubles of both Town and County pharmacists under this Act, and is in full sympathy with chemists in Rural Areas and their difficulties under the Mile Limit Clause.

Having served already three years on the Council, he is fully acquainted with its working.

Always progressive, the fundamental changes that have been made during the past year to bring the Council and its officers into unison with the Craft at large have had his earnest and loyal support, and it is his intention, if elected, to do everything in his power to bring about a still further increase in the harmony between all sections, to defend our rights, to maintain our privileges and to increase our prestige.

We cannot do without any member of the Council who has taken part in pressing for and carrying out the re-organisation of the Society, because there is now greater efficiency, more economy and a better understanding than has previously existed.

We, therefore, urge you to support Mr. Bilson, that he may help to carry on the good work to its completion.

MISCELLANEOUS

A Pretty Picture

A striking phrase and a convincing argument for some speciality or lot of your business you wish to push. That is what a TASTING CARD is. Write for details of this new system of window advertising which is far more effective than, and quite different from, ordinary methods.

BROLEY, Chemist, WHETSTONE, MIDDLESEX.

What You Require in Business.

Up-to-date advertising. Ideas for new Specialities. Smart Window Displays. Window Centres. The latter 2/6 each, state wants. Note—This week a Pharmacist renews for his fifth year, showing that he is satisfied with my methods. Practical ideas for Pharmacists are my speciality. Particulars free.

BILLYARD ALLISON, PHARMACIST, RETFORD.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptional selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

SHOPFITTINGS.—Marble-top, Mahogany and Plate-glass Sponge Case, 79*s.* 6*d.*; 5-ft. Mahogany and Plate-glass Counter Case, 80*s.*; 6-ft. Mahogany and Plate-glass Counter, 80*s.*; Perfume Case and Desk, 40*s.*; hundreds of cash bargains; inquiries solicited. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green. Shares for Sale (free of commission, subject).—200 Molassine Ordinary, 5s. 9d.; 100 7 per cent. Preference, 9s.; 100 J. Watson & Son 10 per cent. Preferred Ordinary, 29s. 3d.; 200 Pears' Ordinary, 35s. 4½d.; 100 Brunner, Mond Ordinary, 96s. 3d.; 100 St. Ivel 6 per cent. Preference, 16s. 7½d.; 200 Schweppe's Deferred, 11s. 3d.; 200 Veno's Drug, 21s. 3d.

Wanted (subject).—350 Wright, Layman Preference, 20s. 9d. x.d.; £500 Idris Debenture, 61½; 500 Idris "A" Preference, 3s. 3d.

List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SECOND-HAND FITTINGS.—The entire modern Fittings of a medium-size Store, condition nearly new, consisting of a 12-ft. Drug Fitting; 1 9-ft. Glass-fronted Counter; 1 10-ft. ditto, both full of Drawers at back, solid Mahogany tops; 1 12-ft. by 9-ft. Wall Case; 1 5-ft by 9-ft. Wall Case, Mahogany; 1 6-ft. Glass Counter Perfume Case and Desk; Cash Till; 2 Silent Salesman Showcases; Mahogany and Embossed Window-enclosure, and all Glass Shelves, etc.; 1 8-ft. by 2-ft. Counter; the whole repolished as new; price £68; or separately; delivered and fixed if necessary; also a large stock of Showcases and Partitioning to be seen here. Farley & Co., 227 Old Street, E.C.

CHEMISTS' Fittings, Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Desks, Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten prices; before you decide get my estimate, you can't do better; 30 years fitting Pharmacies. George Cook, the Chemists' working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

BIG BARGAINS IN SECOND-HAND SHOPFITTINGS.—Set of Plate-glass Window Shelves, 5 ft. 9 in., with Tapped Bars and Brackets, 45s.; set ditto, 2 ft. 10 in., 25s.; set ditto, 5 ft. long, 55s.; 6-ft. Dispensing-screen, £5; 5 ft. 6 in. Dispensing-screen Case, opens at back, 50s.; 12-ft. Range Mahogany Drawers, Gold Labelled, £6; 12-ft. Range Mahogany ditto, Glass Labelled, £8 10s.; 120 Gold-labelled Shop-rounds, £4 12s.; Silent Salesman, 75s.; ditto, 6 ft. high, £7 10s. R. TOMLINSON & SONS, Bond Street, Birmingham.

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

SODA-WATER Trolley, that makes heavy work light, and on which a boy of 8 can easily convey 3 dozen syphons; will go through any doorway; dozens in use in all parts of the country; carriage paid, 37s. Sole Makers, Arthur & Co., 9 K.P., Cambridge.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d*.

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FOR DISPOSAL.

BOOKS AND PERIODICALS.

MARTINDALE'S "Extra Pharmacopœia"; also "British Pharmacopœia," '98; sent post free for 6s. each. McMullan, Chemist, Larne.

DENTAL.

TEETH; 1,000 diatorics, molars and bicuspids, good colours, sizes, shapes; 10s. "R.," 57 Thornhill House, Thornhill Road, London, N.

SHOP FITTINGS.

TWO show-cases, mahogany and plate-glass doors, each 5 ft. high, 3 ft. 8 in. wide, and 8 in. deep, standing on one glass-fronted case, with four glass doors, 9 ft. 8 in. long, 3 ft. high, and 1 ft. wide; make a splendid shop-side fitting; all or separate; £8 the lot. Apply, Harlow, 6 Queen Street, Louth.

MISCELLANEOUS.

WATER bed, 72 by 30; new six months ago; never used. Offers to Doble, Chemist, Banbury.

NINE 40-ft. oxygen cylinders, with covers, 2 gauges, keys and regulators. 80/31, Office of this Paper.

MERLIN chair, convertible couch type; nearly new condition; cushions not soiled; list price £12; what offers? Wilson & Co., 395 High Road, Gunnersbury, W.

FOUR carboys, Maw's list 1450; cost £4 each, complete with pedestal and rails; half price, or exchange patents; also invalid's chair on wheels and complete x-ray apparatus. Goddens, 298 Streatham High Road.

WANTED.

SUPPOSITORY mould (small); cheap. Apply, 78 6, Of this Paper.

"B. P.," 1867, wanted, in good condition. State price to Office of this Paper.

AUTOMATIC pill-rounding machine; must be in good co Castle Tablet Co., Ltd., 106 Barnsbury Road, N

GLASS show-case, similar pattern to silent salesman appro measurements 6 ft. 6 in. by 2 ft. by 2 ft. Full par to Jeeves, Chemist, Brighton.

OPTICAL books; Minor, Major, Chemists' books; send pre for valuation; cash offers per return. Gower, Bookse 41 Voltaire Road, Clapham, London, S.W.

POISONING FATALITIES.

ELEVEN deaths following the administration of poison have been recorded during the week. A disinfectant, lau am, mercury perchloride, morphine, oxalic acid, paral strychnine, and veronal were the fatal articles. We serve the details.

Sports.

THE LEICESTER PHARMACY ATHLETIC CLUB opened their cricket season on April 30. Their opponents, the Le ster Tradesmen, batted first, and were dismissed for 6 uns, H. Chawner's first three balls of the season being resp le for two wickets clean-bowled. L.P.A.C. responde with 68 for eight wickets.

MR. E. C. HORTON, of the Surrey Walking Cl and representative for Messrs. Butler & Crispe, prop ary medicine dealers, Clerkenwell Road, London, E.C., up twenty-four records in the twelve hours' walking-m h at Stamford Bridge, London, on May 2. These rang from 51 miles in 8 hours 8 minutes 25½ seconds to 7 miles 145 yards in 12 hours. This remarkable perfo ance eclipses the previous best (72 miles 33 yards) by T. yne in 1910. Mr. Horton's mode of progression is ev and without wasted energy or exaggerated action. He not appear to be walking five miles an hour when ally covering the ground at over six miles an hour.

COMING EVENTS.

This section of the "C. & D." is reserved for advance no of meetings or other events. These should be sent to the ditor by Wednesday of the week before the meetings, etc., ur.

Friday, May 8.

Photographic Arts and Crafts Exhibition, Royal Hort ural Hall, Westminster, S.W. Exhibition opens, and rema open (12 to 10 P.M.) until May 16.

Monday, May 11.

Royal Society of Arts, John Street, Adelphi, London, 8 P.M. Mr. W. Burton on "Some Recent Developmen in the Ceramic Industry" (Cantor Lecture III.).

Wednesday, May 13.

Manchester Pharmaceutical Association, Albion Hotel, at 6 P.M. Annual general meeting.

Thames Valley Pharmacists' Association, 40 Clarence Kingston-on-Thames, at 3 P.M. Annual meeting.

Thursday, May 14.

Chemists' Assistants' Association, Bonnington Hotel, Southampton Row, London, W.C., at 9 P.M. Annual general meeting

Ucal Lodge of Pharmacy, 225 Tottenham Court Road (the National Cash Register Co.), London, W., at Lantern-lecture by Mr. Storey on "Modern Advertisin

Friday, May 15.

Royal Institution of Great Britain, Albemarle Street, P London, W., at 9 P.M. Professor Frederick Keeble on Animals: A Study in Symbiosis."

SCHOOL OF PHARMACY PAST STUDENTS' ASSOCIATION, 17 Bl bury Square, London, W.C., at 5 P.M. Annual meeting.

CHEMISTS' DENTAL SOCIETY.—The annual meeting will be held at the Holborn Restaurant London, W.C., on May 30, at 3 P.M.

CHEMICAL SOCIETY.—The Faraday lecture will be delivered in the Royal Institution, Albemarle Street, Piccadilly, London, W., on May 25, at 6 P.M. Admission is by ticket.

FAIRCHILD SCHOLARSHIP AND PRIZES.—Tuesday, June 2, is the date on which applications to sit for the examination for the scholarship and prizes can be received by the Secretary, L. A. B Holden, Albert Chambers, 64-65 Holborn Viaduct, London.

Printed for the Proprietors by SPOTTISWOODE & CO. LTD. New-street Square, and Published by the Proprietors at 42 Street, in the City of London.—*May* 9, 1914.

LORIMER'S Rennet Powder

DEVONSHIRE JUNKET

YEARNED MILK OR CURDS & WHEY

For expeditiously making

JUNKET, CURDS & WHEY AND CURDLING MILK.

A new and most perfect preparation, entirely superseding the liquid rennet. Keeps good any length of time, always reliable, and gives the utmost satisfaction to every housewife, Chef, and Cook.

Packed in Bottles containing sufficient for 10 Gallons of Milk, each with Measure Spoon attached.

PRICE:

4/- per dozen.

42/- per gross.

Special Terms for Quantities.

RENNET TABLETS.

24 Tablets in each tube. Each Tablet makes 1 quart Junket.

Boxes of 12 tubes, **4/-** per box.

RENNET ESSENCE.

This Essence is the strongest obtainable. Will keep under any condition, and gives general satisfaction.

¼ Pint Bottles, **3/6** per doz.

½ Pint Bottles, **6/-** per doz.

1 Pint Bottles, **11/-** per doz.

LORIMER-MARSHALL, Ltd., *Offices and Showrooms:* 12 Tower Hill, London, E.C. *Factories:* Britannia Works, Coldblow, HATCHAM, S.E.

Telegraphic Add.: "Lorimarsco, Bilgate, London." Office Telephone: CENTRAL 13414. Works Telephone: NEW CROSS 2119.

"READY FOR RETAIL"

THE PHARMACIST'S B.D.H. REMEMBRANCER.

NEW GOODS

AND

SEASONABLE LINES

MAY 1914

The above is the title of a Booklet which will be supplied on request to Pharmacists interested in

SALINE HEALTH SALT

CITRATE of MAGNESIA CARLSBAD SALT

and other

SPRING and SUMMER SPECIALITIES

Manufactured in our own Laboratories with Chemicals warranted

PURE for PHARMACEUTICAL PURPOSES

and conforming to the definite and stringent tests which are thereby implied.

THE BRITISH DRUG HOUSES, LTD.,

Graham Street, City Road,

LONDON, N.

Printed for the Proprietors by SPOTTISWOODE & CO., LTD., New-street Square; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*May* 9, 1914.